



**MEETING AGENDA**  
**TUALATIN PLANNING COMMISSION**

June 19, 2014; 6:30 p.m.  
JUANITA POHL CENTER  
8513 SW TUALATIN RD  
TUALATIN, OR 97062

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1. **CALL TO ORDER & ROLL CALL**  
Members: Alan Aplin (Chair), Bill Beers, Jeff DeHaan, Cameron Grile, Nic Herriges, Adam Butts and Jan Giunta  
Staff: Aquilla Hurd-Ravich, Planning Manager; Cindy Hahn, Associate Planner
2. **APPROVAL OF MINUTES**
3. **COMMUNICATION FROM THE PUBLIC (NOT ON THE AGENDA)**  
Limited to 3 minutes
4. **ACTION ITEMS**
  - A. Basalt Creek Concept Plan Project - Update and Review of Draft Guiding Principles and Existing Conditions Information
  - B. Metro's Climate Smart Communities Project
6. **COMMUNICATION FROM CITY STAFF**
7. **FUTURE ACTION ITEMS**
8. **ANNOUNCEMENTS/PLANNING COMMISSION COMMUNICATION**
9. **ADJOURNMENT**



# STAFF REPORT

## CITY OF TUALATIN

**TO:** Tualatin Planning Commissioners

**FROM:** Lynette Sanford, Office Coordinator

**DATE:** 06/19/2014

**SUBJECT:** **APPROVAL OF MINUTES**

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**ISSUE BEFORE TPC:**

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**Attachments:** TPC Minutes 5/15/2014



# City of Tualatin

www.tualatinoregon.gov

UNOFFICIAL

## TUALATIN PLANNING COMMISSION -

MINUTES OF May 15, 2014

### TPC MEMBERS PRESENT:

Alan Aplin  
Adam Butts  
Jeff DeHaan  
Bill Beers  
Cameron Grile  
Jan Giunta

### STAFF PRESENT

Aquilla Hurd-Ravich  
Clare Fuchs  
Ben Bryant  
Cindy Hahn  
Lynette Sanford

**TPC MEMBER ABSENT:** Nic Herriges

**GUESTS:** Mike Riley, Christe White, Grace Lucini

### 1. CALL TO ORDER AND ROLL CALL:

Alan Aplin, Chair, called the meeting to order at 6:30 pm and reviewed the agenda. Roll call was taken.

### 2. APPROVAL OF MINUTES:

Mr. Aplin asked for review and approval of the April 17, 2014 TPC minutes. MOTION by Grile SECONDED by Beers to approve the minutes. MOTION PASSED 6-0.

### 3. COMMUNICATION FROM THE PUBLIC (NOT ON THE AGENDA):

Ms. Hurd-Ravich welcomed the newest members of the Planning Commission, Adam Butts and Jan Giunta. Mike Riley is stepping down after several years on the Commission and Ms. Hurd-Ravich thanked him for his service.

### 4. ACTION ITEMS:

**A. POSTPONED: Consideration of Variances to two setback minimums and two height maximums for the Espedal Apartments in the High density Residential (RH) Planning District at 17865 & 17985 SW Pacific Highway (99W) (Tax Map 2S1 15C, Tax Lot 2191, 2202, and 2300) (VAR-14-02)**

Ms. Fuchs, Senior Planner reported that Mountain West Investment submitted a letter stating they are withdrawing their Variance application regarding the Espedal Apartments. They will be redesigning the project, which will no longer need variances.

These minutes are not verbatim. The meeting was recorded, and copies of the recording are retained for a period of one year from the date of the meeting and are available upon request.

An Architectural Review application should be arriving in the next few weeks.

**B. Sign Variance for Cabela's store in the Office Commercial (CO) and Central Commercial (CC) Planning district at 7555 SW Nyberg Street (Tax Map and Lot 2S1 24B 2100, 2S1 24A 2507 and 2700) (SVAR-14-01)**

Mr. Aplin read the script regarding quasi-judicial hearings. Ms. Fuchs presented the staff report regarding a sign variance for Cabela's, which included a PowerPoint presentation. The Cabela's application (SVAR-14-01) requests variances to allow a front wall sign with up to 8-foot high letters with a total sign area of 373 square feet. Normally, 4-foot high letters with a total sign area of 150 square feet would be allowed. Cabela's also proposes a second variance for an east wall sign to face I-5 with up to 8-foot high letters and a total of 227 square feet. Normally, 4-foot high letter with a total sign area of 150 square feet would be allowed.

Ms. Fuchs went through the slides that detailed the variance request, proportion difference, and the variance criteria. Ms. Fuchs stated that there are four avenues for a decision - they can approve the application, approve with amendments, request for the applicant to modify the application, or deny it.

Mr. Aplin inquired as to how many people attended the Neighborhood/Developer meeting and the comments received. Ms. Fuchs responded that four people attended. One of the citizens felt the signs are too large, one thought the architecture will block a portion of the sign at the proposed size, and the last comment was that the rendering makes the sign look flat.

Ms. Giunta asked about the pole signs along Nyberg Rd and I-5. Ms. Fuchs stated the applicant has not applied for signage on the poles, but they could take the existing signs and transform them. They would have to reduce the face by 25%.

*Christe White, Land Use Council for Centercal*

Ms. White presented a few PowerPoint slides that clarified the proportion size of the signs on the building walls and renderings of how the signs would appear from Nyberg Road, 535 feet away. Ms. White explained they are minimizing the signage allowed to alleviate clutter and to not overwhelm the site. Ms. Giunta asked about the illumination of the signs at night. Ms. White answered that it will be a soft white LED light. Ms. Giunta asked if the landscaping will cover the sign. Ms. White responded that it depends on the angle.

MOTION by DeHaan, SECONDED by Giunta to approve the Sign Variance for Cabela's. MOTION PASSED 6-0.

**C. Consideration of Resolution 03-14TPC for a Sign Variance for Cabela's store to place a total of 373 square feet of signage on the south side (front) of the building and a total of 227 square feet of signage on the east side of the building toward I-5.**



MOTION by Grile, SECONDED by Beers to approve Resolution 03-14TPC. MOTION PASSED 6-0.

**5. COMMUNICATION FROM CITY STAFF:**

**A. SW Corridor Draft Recommendation**

Mr. Bryant, Economic Development Manager, presented the SW Corridor draft recommendation which included a PowerPoint presentation. Mr. Bryant explained that prior to the construction of any alignment, Metro and TriMet need to complete a Draft Environmental Impact Statement (DEIS) to determine which alignment is most preferred based on the impacts and benefits.

Mr. Bryant explained that two years ago there were several different alignment options. The recommendation included to eliminate two potential routes: Upper Boones Ferry Road in Durham and Downtown option that connects to the Clark Lumber site. This recommendation maintains options to Bridgeport at the “front door” near I-5 continuing along Lower Boones Ferry Road to downtown Tualatin near the Green Parking Lot.

Mr., Bryant added the next steps in the process include a Metro Opt-In Survey online, which is available through May 23. The Tigard/Tualatin Business Forum scheduled for May 21 is being rescheduled. A CIO Community meeting will be held on May 22. Feedback will go to City Council on May 27 and the Steering Committee will make a decision on June 9, which will be either light rail or bus rapid transit.

Ms. Giunta encouraged the Planning Commission members to attend the CIO forum because there will be new information including housing and employment for the Tualatin route. It will be held May 22 at 6:30 pm in the Juanita Pohl Center.

**B. Basalt Creek Concept Plan Project – Update and Presentation of Partnering Agreement and Public Involvement Plan**

Cindy Hahn, Associate Planner, presented information on the Basalt Creek Concept Plan Project, which included a PowerPoint presentation. Ms. Hahn reported that the Partnering Agreement has been revised to include a statement about compliance with the Oregon Public Meetings Law. Since two jurisdictions are involved, Tualatin and Wilsonville, the City Councils decided that they wanted to act as the Steering Committee for the project. The Partnering Agreement outlines how decisions are going to be made regarding Basalt Creek.

Ms. Hahn explained that there are four techniques regarding the public involvement plan: engagement materials, targeted stakeholder outreach, public events and online surveys, and information updates and announcements. The public involvement plan involves many different groups including property owners, business owners, and developers. A workshop is coming up on June 17 at Horizon Church, south of Norwood.

Additionally, there will be an open house later in the year to look at how our alternatives compare against the measures and goals. Mr. Grile asked when she will be back for updates. Ms. Hahn said the plan was to come to the Planning Commission and Councils at a regular basis to give updates and ask for input. She noted she will be at the Planning Commission meeting in June.

Mr. DeHaan asked how many property owners are involved. Ms. Hahn responded approximately 150. Ms. Giunta asked if they have begun the land use planning process. Ms. Hahn responded that they are in the information gathering phase and the drafts will be coming up in June or July. Ms. Giunta expressed concerns about 124<sup>th</sup> Avenue as it approaches I-5. Ms. Hurd-Ravich answered that the alignment has not changed and will not be affected. Ms. Hahn stated that there will be interesting opportunities with regards to parks, trails, and joint recreation facilities.

*Grace Lucini, 23677 SW Boones Ferry Rd.*

Ms. Lucini lives in the Basalt Creek area and passed out a packet of information that included background regarding the law on notices. Ms. Lucini stated that she is not getting notices about public meetings, even though she has requested to be notified. Ms. Hurd-Ravich noted that the Planning Commission meeting agenda's are always posted in two public places, The City Offices and the Library, and information about Basalt Creek is updated on our web site. Information about the Council Meetings is emailed to interested parties. Ms. Hurd-Ravich added that she will consult with the City Attorney regarding future notices.

## **6. FUTURE ACTION ITEMS**

Ms. Hurd-Ravich stated that on June 19, Ms. Hahn will give a presentation regarding Basalt Creek. There may be discussion regarding Climate Smart Communities.

## **7. ANNOUNCEMENTS/PLANNING COMMISSION COMMUNICATION**

Mr. Aplin asked Ms. Giunta to update the members about issues involving the CIO organizations. Ms. Giunta stated that she heard from a resident of the East CIO that Lennar Homes is looking to develop the Barngrover property off 65<sup>th</sup> and Sagert, also known as Sagert Farm. Lennar Homes withdrew the lot size they submitted previously, and they're coming to the City with a variance asking for medium density housing. Ms. Hurd-Ravich added that Lennar Homes is requesting a Plan Map Amendment to change the zoning from low-density to medium-density and will apply for a Conditional Use Permit that will allow them to downsize to 4,500 square foot lots. Ms. Fuchs will attend the upcoming meeting.

## **8. ADJOURNMENT**

MOTION by Beers SECONDED by DeHaan to adjourn the meeting at 7:47 pm.  
MOTION PASSED 6-0.

\_\_\_\_\_ Lynette Sanford, Office Coordinator



# STAFF REPORT

## CITY OF TUALATIN

**TO:** Tualatin Planning Commissioners

**THROUGH:** Aquilla Hurd-Ravich

**FROM:** Cindy Hahn, Associate Planner

**DATE:** 06/19/2014

**SUBJECT:** Basalt Creek Concept Plan Project - Update and Review of Draft Guiding Principles and Existing Conditions Information

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### ISSUE BEFORE TPC:

Planning Commission will receive an update on the Basalt Creek Concept Plan project, including draft guiding principles and existing conditions information. This information will be presented to City Council on June 23, and discussed at the Joint City Council Meeting with Wilsonville scheduled for Wednesday, July 16, at the Tualatin Police Training Room. Planning Commission will be asked to provide input to City Council on the materials presented at tonight's meeting.

### EXECUTIVE SUMMARY:

At the Planning Commission meeting on May 15, staff presented the Partnering Agreement and Public Involvement Plan for review. Since that meeting, staff from Tualatin and Wilsonville have been working with the Basalt Creek consultant team to complete a detailed calendar of milestones for the project, inventory and map existing conditions in the study area, and develop guiding principles and evaluation measures to be used in assessing alternative land use scenarios. In addition, the redesigned project website, located at [www.BasaltCreek.com](http://www.BasaltCreek.com), went live on May 15.

The Tualatin Parks Advisory Committee (TPARK) received a project update on June 10, and the City Council will receive a similar update on July 14. A Community Workshop was held on June 17 to gather input that will be used to create several alternative concepts for future development in the Basalt Creek area. Staff will provide a verbal update to Planning Commission about the TPARK presentation, as well as the Community Workshop at tonight's meeting.

### NEXT STEPS

A Joint City Council Meeting to review progress on the Basalt Creek Concept Plan project is scheduled for Wednesday, July 16, at the Tualatin Police Training Room. This meeting will focus on guiding principles, evaluation measures, and existing conditions information gathered to date. The next joint meeting is anticipated for December. Next steps in the planning process include creating alternative concepts for development in the study area, evaluation and testing

of the alternative scenarios, and choosing a preferred alternative. Planning Commissions and City Councils of both Tualatin and Wilsonville will receive regular updates throughout the planning process. A copy of the graphic project schedule is included in tonight's presentation.

## **DISCUSSION:**

### **GUIDING PRINCIPLES**

Several draft guiding principles have been developed for the Basalt Creek Concept Plan project based on input from the Tualatin and Wilsonville City Councils at the joint meeting held on October 29, 2013. At the July 16 Joint City Council Meeting the Councils will be asked to review and provide feedback on these principles.

### **EXISTING CONDITIONS**

The consultant team has gathered information about market conditions, demographics, environmental constraints, services and utilities, and transportation in the Basalt Creek study area. In addition, input gathered from the Community Workshop, and from interviews and focus groups that will occur in the next two weeks will help inform creation of the alternative development scenarios. Staff will provide a brief verbal overview of existing conditions information gathered to date at tonight's meeting.

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**Attachments:**    A. Presentation



# Project Update

Tualatin Planning Commission

June 19, 2014



# What is the schedule?

2014

2015

SPRING

SUMMER

FALL

WINTER

SPRING

SUMMER

FALL

WINTER

Public Involvement Plan  
& Guiding Principles

Ongoing Community Outreach



Technical and Background Analysis

Visioning, Analysis & Developing  
Alternative Scenarios



Public  
Workshop

Testing Alternative  
Scenarios and Choosing  
the Preferred Scenario



Open  
House

Jurisdictional Boundary  
Discussions and Decisions

Developing Final Concept  
Plan and Phasing

Hearings and Adoption

JC

JC

JC

JC

JC

JC = Joint Council Meetings

\* Tualatin and Wilsonville Planning Commissions and City Councils will be engaged and updated regularly throughout the concept planning process. Exact dates for meetings regarding Basalt Creek will be posted on the project website calendar @ [www.basaltcreek.com/get-involved](http://www.basaltcreek.com/get-involved)

SPRING

SUMMER

FALL

WINTER

SPRING

SUMMER

FALL

WINTER

2014

2015

# Draft Guiding Principles

## Overall Project

- Create a shared vision for each City that can be implemented
- Protect existing city neighborhoods and employment areas from impacts created by growth
- Maintain and compliment the identity of each City with future development



# Draft Guiding Principles

## Qualities of the Place

- Encourage high quality industrial development and creation of quality neighborhoods
- Explore how natural resource areas can be community amenities and assets
- Create synergy around the economic opportunities of this unique area
- Provide access to nature and active recreational opportunities

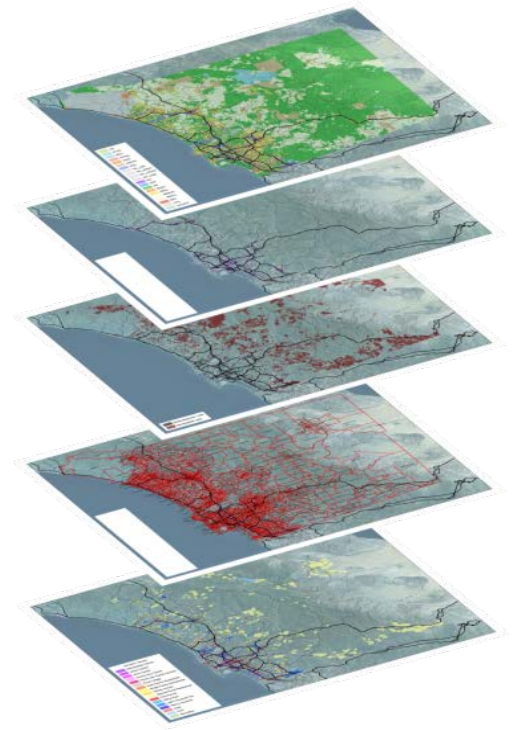
# Draft Guiding Principles

## Products and Outcomes

- Maintain the identity of each City
- Use limited financial resources efficiently and leverage economic opportunities
- Provide appropriate transitions between different land uses
- Maintain mobility and create transportation choices for freight, employees and citizens
- Provide transportation improvements concurrently with demand
- Create continuous/cohesive infrastructure (roads, trails, pipes) systems to serve the area

# Existing Conditions

1. Market Conditions
2. Demographics
3. Environmental Constraints
4. Services and Utilities
5. Transportation



# Next Steps

- Joint Council Meeting
  - July 16, Tualatin Police Training Room
  - Guiding Principles, Existing Conditions
- Next Planning Activities:
  - Create alternative development concepts
  - Evaluate and test alternative scenarios
  - Choose preferred alternative

# Questions?



# MEMORANDUM

## CITY OF TUALATIN

**TO:** Honorable Mayor and Members of the City Council

**FROM:** Aquilla Hurd-Ravich, Planning Manager  
Ben Bryant, Economic Development Manager

**DATE:** 06/19/2014

**SUBJECT:** Metro's Climate Smart Communities Project

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### ISSUE BEFORE THE COUNCIL:

Receive an update on Metro's Climate Smart Communities Project.

### EXECUTIVE SUMMARY:

At a recent City Council Work Session, Metro Councilor Dirksen briefly highlighted the Climate Smart Communities Project which generated several questions. In response, Metro staff members attended a Council Work Session and provided a more in-depth overview of the project, as well as the outcomes of meetings between the Joint Policy Advisory Committee on Transportation (JPACT) and Metro Policy Advisory Committee (MPAC). At the conclusion of this presentation Mayor Odgen asked that the Tualatin Planning Commission receive a briefing on Climate Smart Communities. Tualatin staff have not been intensely involved but we are prepared to give an overview of the project. The following staff report outlines the project.

### Background

In 2009, as part of a statewide transportation funding bill, the Oregon Legislature required the Portland metropolitan region develop an approach for reducing greenhouse gas (GHG) emissions from small trucks and cars. As required by the legislation, the plan must seek to reduce emissions 20% below 2005 levels by 2035. Further, the plan must be completed by 2014.

Metro undertook this mandate in 3 phases as described below (we are currently in phase 3).

- *Phase 1: Understand Choices* - This phase included research of best practices for reducing GHG and culminated in a toolbox of strategies the region could employ to reach the target reductions.
- *Phase 2: Shaping Choices* - This phase identified three alternative approaches which are detailed in Attachment B & C. Broadly speaking, the alternative approaches are categorized as following:
  - 1) Recent Trends

## 2) Adopted Plans

## 3) New Plans and Policies

This phase also included an evaluation of how well these approaches would meet the required GHG emission reductions. The good news is that our Adopted Plans meet the targets; however, there are questions as to the funding levels needed to fully implement all of the adopted plans.

- *Phase 3: Shaping the Preferred Approach* - This is the current phase of the project and is aimed at a regional discussion to determine the mixing and matching of the three approaches from above which will formulate the preferred alternative.

## Regional Decisions

At the regional level, the discussion has been centered around the following strategies:

- How much transit should we provide?
- How much should we use technology to manage the system?
- How much should we expand the reach of travel information?
- How much of the planned active transportation network should we complete?
- How much of the planned street and highway network should we complete?
- How should local communities manage parking?

Absent from this list are the impacts of local land use plans and vehicle fuel efficiency, due to specific reasons outlined below:

- *Local Land Use Plans*: At the onset of this project, there were concerns about what the impact this project would have on local land use plans. Fortunately, the analysis of the regions local plans determined that they had many elements that would reduce GHG emissions (i.e. investing in town centers, improving mixed-use areas, supporting transit, etc.). According, the members of JPACT and MPAC recommended that local plans remain the same.
- *Vehicle Technology and Fuel Efficiency*: The legislation requiring this planning effort was specific about which assumptions could be used regarding the adoption of more fuel efficient vehicles. Those assumptions are more clearly outlined in Attachment C.

## Schedule

*January to May 2014* Community and business leaders, local governments and the public are asked to weigh in on which investments and actions should be included in the region's preferred approach.

*April to May 2014* Regional policy advisory committees are asked to shape a draft preferred approach and make recommendations to the Metro Council.

*June 2014* The Metro Council considers the policy committees' recommendations and is asked to provide direction to staff on the draft preferred approach.

*Summer 2014* Staff evaluates the draft preferred approach.

*September 2014* Final public review of preferred approach.

*December 2014* Metro Council considers adoption of the recommended preferred approach.

*January 2015* Submit adopted approach to Land Conservation and Development Commission for approval.

## **Update**

On May 30 the members of JPACT and MPAC made a joint recommendation to the Metro Council on a draft approach for testing. There are nine recommendations that are intended to provide Metro staff with sufficient direction to move forward with testing a draft approach that will be subject to further discussion and potential refinement after analysis. A copy of the recommendation is provided as **Attachment E**.

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**Attachments:**    [Attachment A: Presentation](#)  
                         [Attachment B: Climate Smart Brochure](#)  
                         [Attachment C: Scenario Assumptions](#)  
                         [Attachment D: Policymaker Decision Guide](#)  
                         [Attachment E: JPACT and MPAC Recommendation](#)



[www.oregonmetro.gov/climatescenarios](http://www.oregonmetro.gov/climatescenarios)

**CLIMATE  
SMART**  
COMMUNITIES  
SCENARIOS PROJECT



**Climate Smart Communities Scenarios Project**

# **Shaping the preferred approach**

**John Williams, Deputy Planning Director**

**Tualatin City Council Work Session**

**May 12, 2014**



**Metro** | *Making a great place*

# State mandate to reduce GHG emissions



2009 – HB 2001 (Jobs and Transportation Act)

2011 – LCDC adopts targets

2012 – LCDC to adopt deadline for preferred scenario selection

# Building toward six desired outcomes



**Vibrant  
communities**



**Equity**



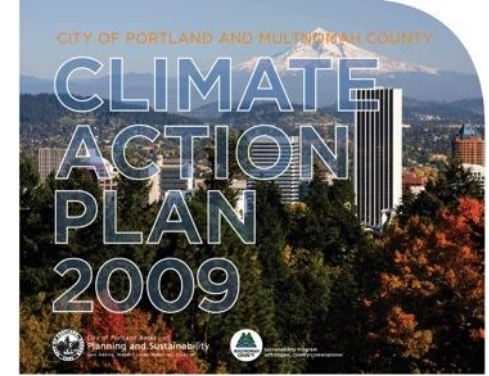
**Economic  
prosperity**



**Transportation  
choices**

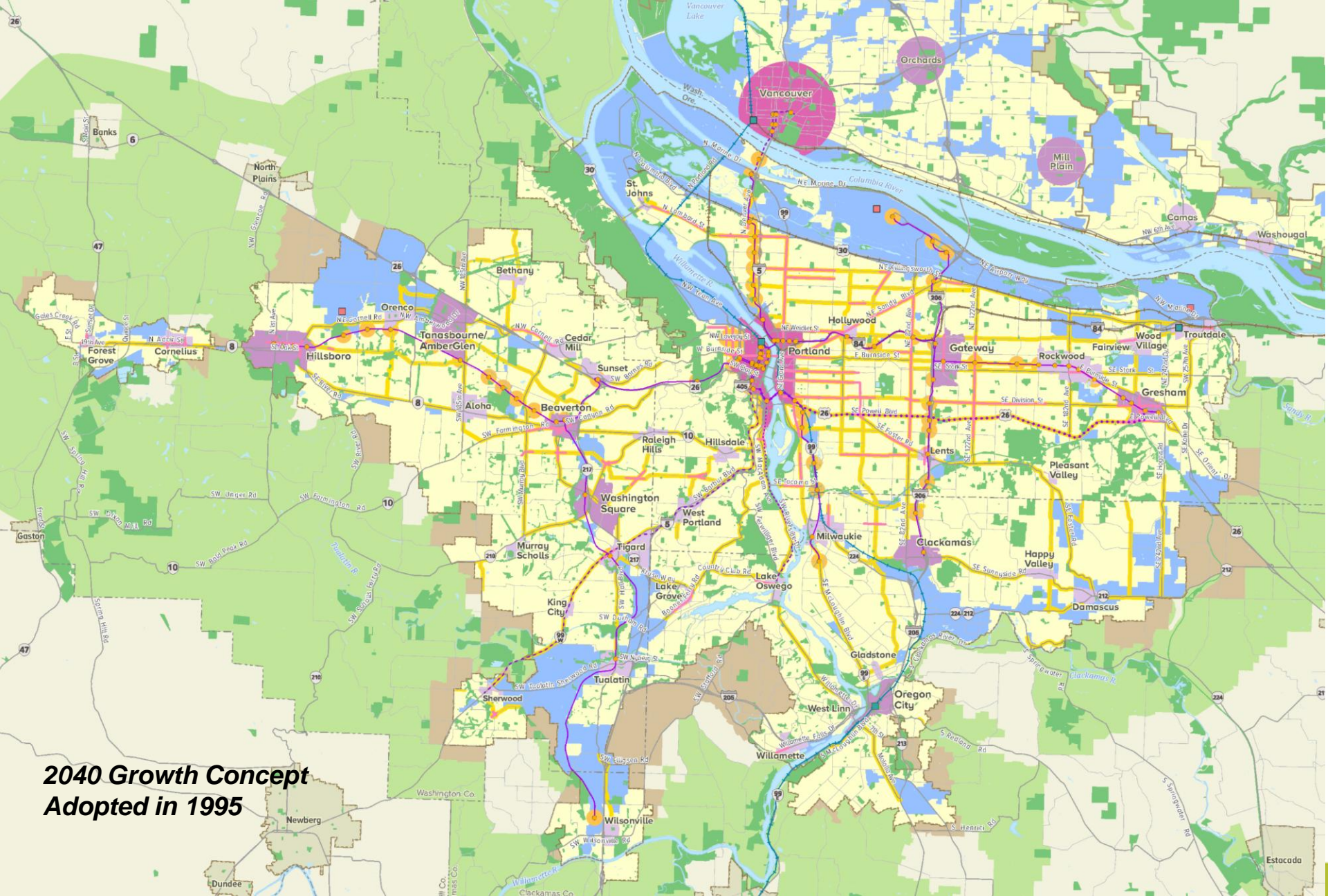


**Clean air & water**



**Climate  
leadership**





**2040 Growth Concept  
Adopted in 1995**



A map of the Portland, Oregon metropolitan area and surrounding regions in Washington and Oregon. The map shows various cities and towns, including Vancouver, Camas, Troutdale, Portland, Beaverton, Hillsboro, Forest Grove, and Newberg. Major highways like I-5, I-205, and I-84 are visible. The map uses different colors to delineate urban growth boundaries and county lines. The text "OVERVIEW OF PROCESS, RESULTS AND POLICY QUESTIONS" is overlaid in large, bold, black letters.

# OVERVIEW OF PROCESS, RESULTS AND POLICY QUESTIONS

Urban growth  
boundary

County boundary



0 10 Miles

# Where we've been & where we are headed

## PHASES 1 & 2

**Understand Choices**  
2011-2012

**Shape Choices**  
Jan.-Oct. 2013

## PHASE 3

**Shape Preferred**  
Nov. 2013-June 2014

**Adopt Preferred**  
Sept.-Dec. 2014



# What the future might look like in 2035



A

## RECENT TRENDS

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.



B

## ADOPTED PLANS

This scenario shows the results of successfully implementing adopted land use and transportation plans and achieving the current RTP, which relies on increased revenue.



C

## NEW PLANS & POLICIES

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

*Scenarios approved for testing by Metro advisory committees and the Metro Council in May and June 2013*

# Elements of each scenario...

March 30, 2014

## Phase 2: 2010 base year and alternative scenario inputs

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

		2010	2035		
Strategy		Base Year Reflects existing conditions	Scenario A Recent trends	Scenario B Adopted plans	Scenario C New plans and policies
Community design	Households in mixed use areas (percent)	26%	36%	37%	37%
	Urban growth boundary expansion (acres)	2010 UGB	28,000 acres	12,000 acres	12,000 acres
	Drive alone trips under 10 miles that shift to bike (percent)	9%	10%	15%	20%
	Transit service (daily revenue hours)	4,900	5,600	6,200 (RTP Financially Constrained)	11,200 (RTP State + more transit)
	Work/non-work trips in areas with parking management (percent)	13% / 8%	13% / 8%	30% / 30%	50% / 50%
Pricing	Pay-as-you-drive insurance (percent of households participating)	0%	20%	40%	100%
	Gas tax (cost per gallon 2005\$)	\$0.42	\$0.48	\$0.73	\$0.18
	Road user fee (cost per mile)	\$0	\$0	\$0	\$0.03
	Carbon emissions fee (cost per ton)	\$0	\$0	\$0	\$50

See pages 58-59 of the discussion guide



# ...Elements of each scenario

March 30, 2014

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

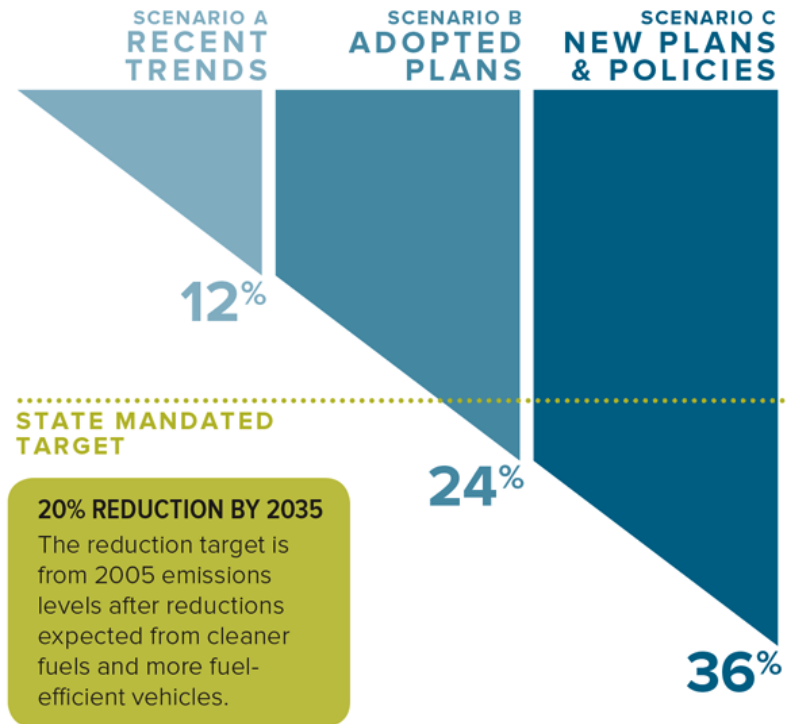
Strategy		2010	2035		
		Base Year Reflects existing conditions	Scenario A Recent trends	Scenario B Adopted plans	Scenario C New plans and policies
Marketing and Incentives	Households participating in eco-driving (percent)	0%	0%	30%	60%
	Households participating in individualized marketing programs (percent)	9%	30%	30%	60%
	Workers participating in employer-based commuter programs (percent)	20%	20%	20%	40%
	Carsharing in high density areas (participation rate)	One carshare per 5000 vehicles	Twice the number of carshare vehicles available	Same as Scenario A	Four times the number of carshare vehicles available
	Carsharing in medium density areas (participation rate)	One carshare per 5000 vehicles	Same as today	Twice the number of carshare vehicles	Same as Scenario B
Roads	Freeway and arterial expansion (lane miles added)	N/A	9 miles	81 miles (RTP Financially Constrained)	105 miles (RTP State)
	Delay reduced by traffic management strategies (percent)	10%	10%	20%	35%
Fleet	Fleet mix (percent)	auto: 57% light truck: 43%	auto: 71% light truck: 29%		
	Fleet turnover rate	10 years	8 years		
Technology	Fuel economy (miles per gallon)	auto: 29.2 mpg light truck: 20.9 mpg	auto: 68.5 mpg light truck: 47.7 mpg		
	Carbon intensity of fuels	90 g CO <sub>2</sub> e/megajoule	72 g CO <sub>2</sub> e/megajoule		
	Plug-in hybrid electric/all electric vehicles (percent)	auto: 0% / 1% light truck: 0% / 1%	auto: 8% / 26% light truck: 2% / 26%		

See pages 58-59 of the discussion guide

# We found good news

- Adopted plans meet the target - *if we can make the investments needed*
- Significant community, economic and environmental benefits can be realized
- We will fall short if we continue investing at current levels

## REDUCED GREENHOUSE GAS EMISSIONS PERCENT BELOW 2005 LEVELS



See pages 53-57 of the discussion guide

# Benefits grow with more investment

- Investment helps address congestion
- Less air pollution, more physical activity and improved safety save lives
- Reduced emissions benefit the environment
- Businesses and our economy benefit from reduced delay
- Lower vehicle travel costs help household budgets



**See pages 53-57 of the discussion guide**

# Policy choices made in February

- ☑ **LAND USE** - Carry forward and implement adopted regional and local plans
- ☑ **FLEET AND VEHICLE TECHNOLOGY** - Use state assumptions for transition to cleaner fuels and fuel-efficient vehicles and insurance paid by the miles driven

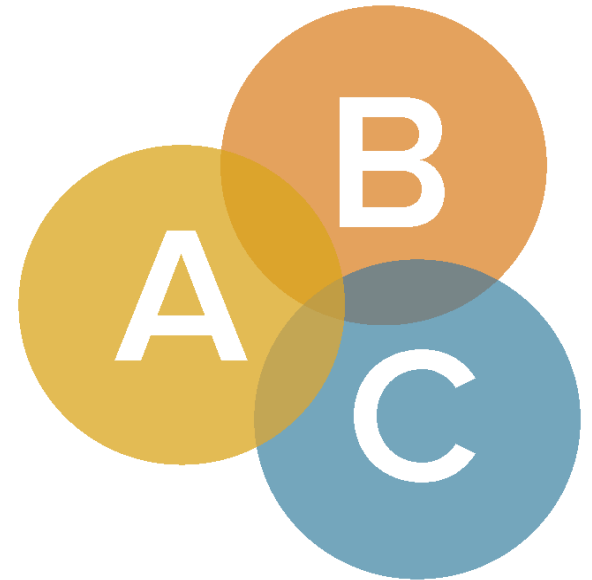
See page 18 of the discussion guide



# Policy choices to make on May 30...

To realize our shared vision for healthy and equitable communities and a strong economy while reducing greenhouse gas emissions...

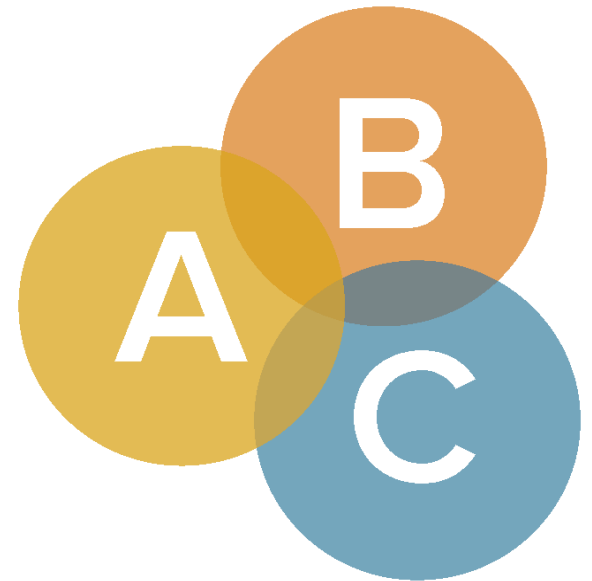
- ☐ How much **transit** should we provide by 2035?
- ☐ How much should we use **technology** to manage the system by 2035?
- ☐ How much should we expand the reach **of travel information** by 2035?



See page 19 of the discussion guide

# ...Policy choices to make on May 30

- ☐ How much of the planned **active transportation** network should we complete by 2035?
- ☐ How much of the planned **street and highway** network should we complete by 2035?
- ☐ How should local communities manage **parking** by 2035?



See page 19 of the discussion guide

# Understanding the ratings

## RELATIVE CLIMATE BENEFITS



Transit



Parking



Active transportation



Information and incentives



Technology and “smart” transportation



Streets and highways

## RELATIVE COST

Up to \$\$\$

\$\$\$

\$\$\$

\$\$\$

\$\$\$

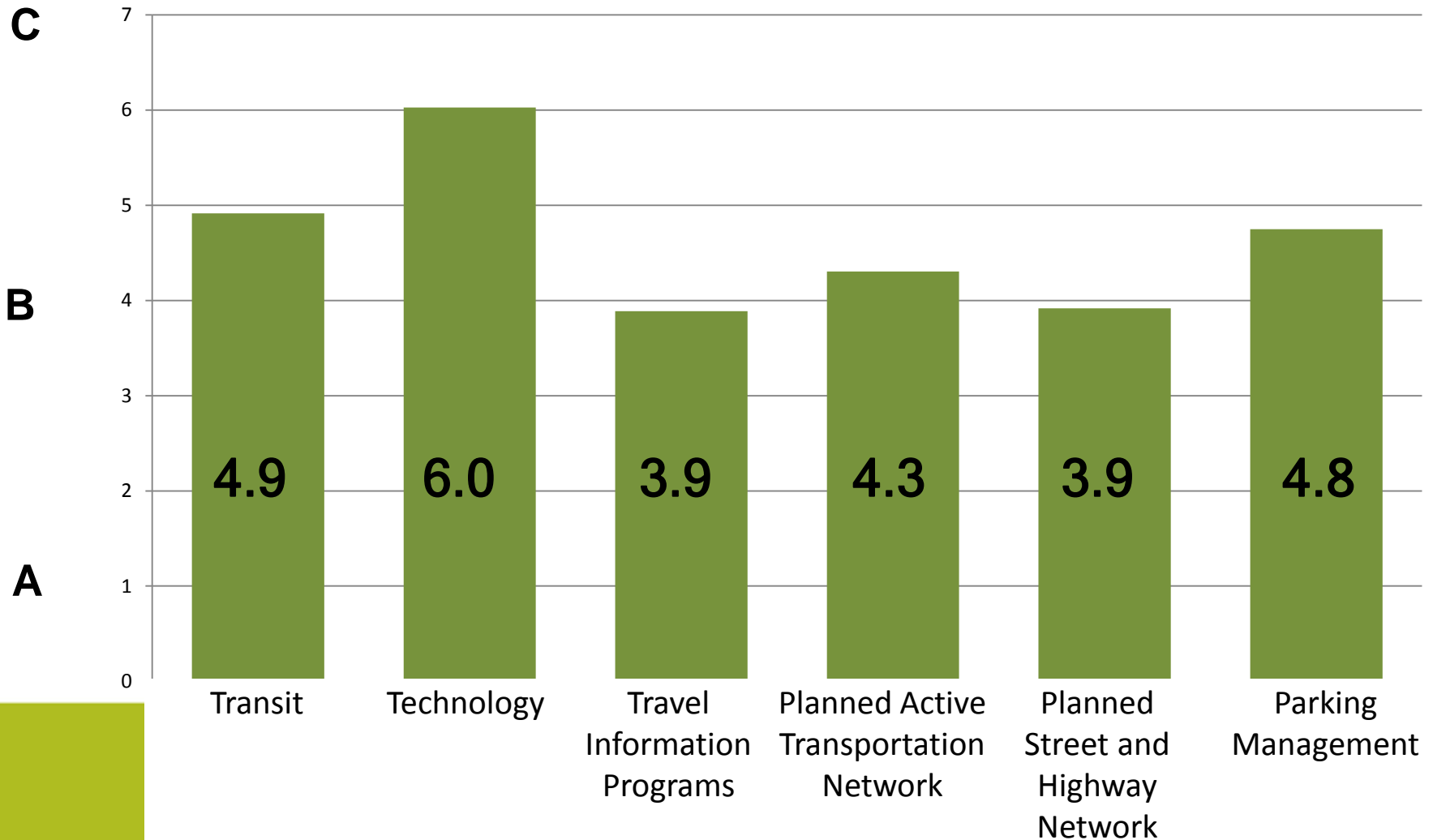
Up to \$\$\$

See pages 21 and 22 of the discussion guide

# April 11 JPACT/MPAC Straw poll results

## Preferences for Scenarios A, B, C and in-Between Scenarios

Averages of all respondents (mean):





# What this means for communities

- **We can meet the target by building local plans and visions**

*Regional agreement to carry forward and implement adopted regional and local plans*

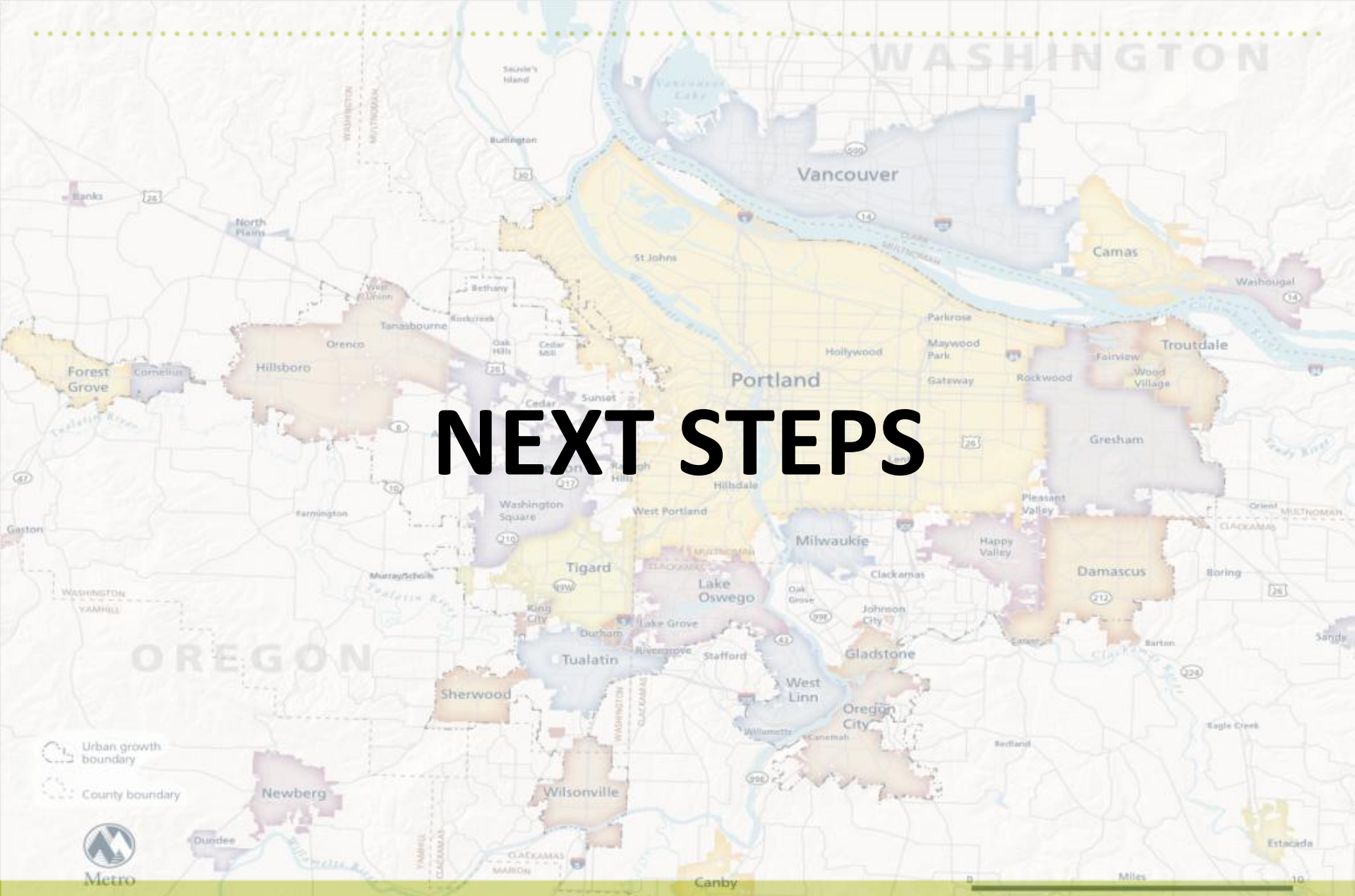
- **Local control and flexibility will be provided**

*Opportunity to advocate for local needs and priorities across the six policy areas*

- **We're stronger together**

*Local, regional, state and federal partnerships are needed to invest in communities and realize our adopted plans*





# Immediate next steps

**WEEK OF APRIL 14**

Report results of meeting

**MAY 1-5**

Members report to county coordinating committees

**MAY**

TPAC and MTAC shape proposal for consideration on May 30

**MAY 30**

JPACT and MPAC rec'd on draft preferred approach and begin funding discussion

**JUNE 19**

Council direction on draft preferred approach

# Final steps in 2014

**JUNE – AUGUST**

Staff evaluates draft preferred & develops implementation rec'ds

**SEPTEMBER**

Report back results to regional advisory committees

**SEPT. 18 – NOV. 3**

Public and local government review of results and draft preferred approach

**NOV. – DEC.**

Final refinements and adoption

# CLIMATE SMART COMMUNITIES SCENARIOS PROJECT



Metro



## What the future might look like in 2035

### Scenario

# A

#### Recent Trends

This scenario shows the results of implementing adopted plans to the extent possible with existing revenue.

### Scenario

# B

#### Adopted Plans

This scenario shows the results of successfully implementing adopted land use and transportation plans and achieving the current RTP, which relies on increased revenue.

### Scenario

# C

#### New Plans and Policies

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

# INVESTING IN GREAT COMMUNITIES

**The Climate Smart Communities Scenarios Project was initiated in response to a mandate from the 2009 Oregon Legislature to reduce per capita greenhouse gas emissions by 20 percent from cars and small trucks by 2035.**

There are many ways to reduce emissions while creating healthy, more equitable communities and a vibrant regional economy. Providing services and shopping near where people live, expanding transit service, encouraging electric cars and providing safer routes for walking and biking all can help.

The goal of the Climate Smart Communities Scenarios Project is to engage community, business, public health and elected leaders in a discussion with their communities to shape a preferred approach that meets the state mandate and supports local and regional plans for downtowns, main streets and employment areas.

To realize that goal, Metro evaluated three approaches – or scenarios – over the summer of 2013 to better understand how best to support community visions and reduce greenhouse gas emissions. The results will be used to frame the regional discussion about which investments and actions should be included in a preferred approach for the Metro Council to consider for adoption in December 2014.



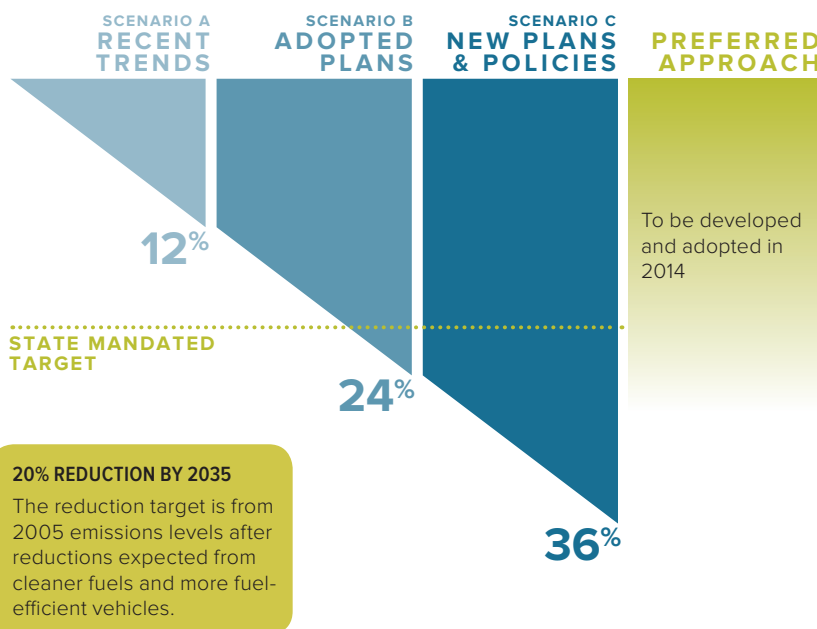
## WHAT HAVE WE LEARNED SO FAR?

### Adopted plans can meet the target

Our analysis indicates that adopted local and regional plans can meet our target for reducing greenhouse gas emissions — if we make the investments and take the actions needed to implement those plans.

**This is good news, but there is more work to be done.**

## Attachment B REDUCED GREENHOUSE GAS EMISSIONS PERCENT BELOW 2005 LEVELS



INVESTMENTS AND ACTIONS THAT CREATE GREAT COMMUNITIES	RELATIVE CLIMATE BENEFIT
<b>WHERE WE LIVE AND WORK</b>	
Implement 2040 Growth Concept	★★★★★
Implement local zoning, comprehensive plans and transportation plans	★★★★★
Provide new schools, services, and shopping close to neighborhoods	★★★★★
Manage the urban growth boundary	★★★☆☆
<b>HOW WE GET AROUND</b>	
Maintain and make transit more convenient, frequent, accessible and affordable	★★★★★
Manage parking with a market-responsive approach	★★★★☆
Use technology and “smarter” roads to manage traffic flow and boost efficiency	★★★★☆
Provide information to expand use of low carbon travel options and fuel-efficient driving techniques	★★★★☆
Make walking and biking more safe and convenient with complete streets and trails	★★★☆☆
Maintain and make streets and highways more safe, reliable and connected	★★★☆☆
Expand access to car-sharing	★★★☆☆
<b>OUR HEALTH AND ENVIRONMENT</b>	
Transition to low emission vehicles and engines, including electric vehicles	★★★★★
Transition to cleaner and low carbon fuels	★★★★★
Achieve federal fuel economy standards	★★★★☆

## WHAT INVESTMENTS AND ACTIONS BEST SUPPORT YOUR COMMUNITY VISION?

### Each community is unique

Most of the investments and actions under consideration are already being implemented to varying degrees across the region to realize community visions and other important economic, social and environmental goals.

A one-size-fits-all preferred approach won't meet the needs of our diverse communities. A combination of investments and actions will help us realize our shared vision for making this region a great place for generations to come.



## WHAT DOES THIS MEAN FOR YOUR COMMUNITY?

### We're all in this together

Local, regional, state and federal partnerships are needed to make the investments and take the actions necessary to create great communities while reducing greenhouse gas emissions.

Working together, we can develop a shared strategy that may include a transportation legislative package for 2015.

RELATIVE COST	WHO HAS A ROLE?			
	FEDERAL	STATE	REGIONAL	LOCAL
\$\$\$			●	●
\$\$\$				●
\$\$\$				●
\$\$\$			●	
Up to \$\$\$	●	●	●	●
\$\$\$				●
\$\$\$	●	●	●	●
\$\$\$	●	●	●	●
\$\$\$	●	●	●	●
Up to \$\$\$	●	●	●	●
\$\$\$				●
\$\$\$	●	●	●	●
\$\$\$	●	●		
\$\$\$	●	●		



## About Metro

Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy, and sustainable transportation and living choices for people and businesses in the region. Voters have asked Metro to help with the challenges and opportunities that affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to providing services, operating venues and making decisions about how the region grows. Metro works with communities to support a resilient economy, keep nature close by and respond to a changing climate. Together, we're making a great place, now and for generations to come.

Stay in touch with news, stories and things to do.

[www.oregonmetro.gov/connect](http://www.oregonmetro.gov/connect)

**Metro Council President**  
Tom Hughes

**Metro Council**  
Shirley Craddick, District 1  
Carlotta Collette, District 2  
Craig Dirksen, District 3  
Kathryn Harrington, District 4  
Sam Chase, District 5  
Bob Stacey, District 6

**Auditor**  
Suzanne Flynn

## Attachment B

## WHAT'S NEXT?

**January to May 2014** Community and business leaders, local governments and the public are asked to weigh in on which investments and actions should be included in the region's preferred approach

**June 2014** The Metro Council is asked to provide direction to staff on the draft preferred approach

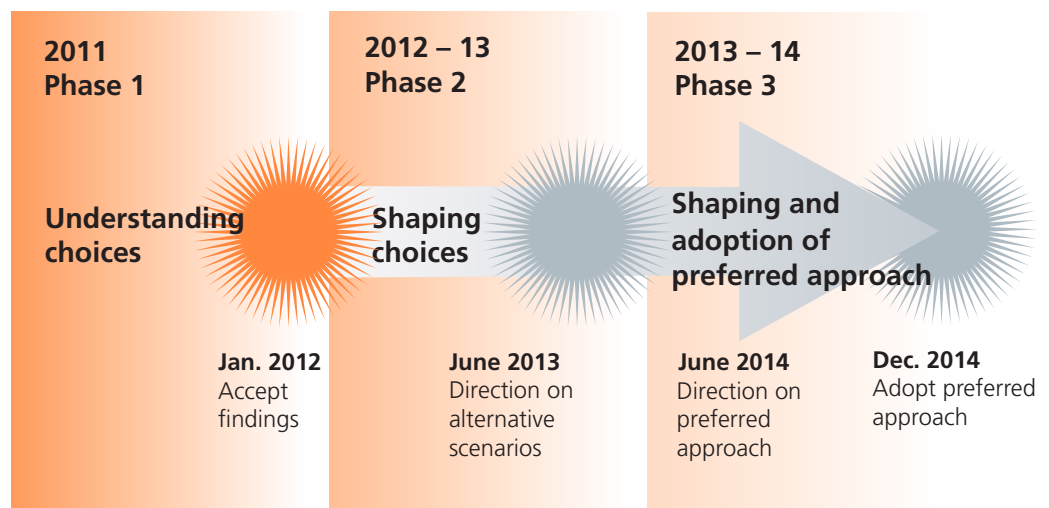
**Summer 2014** Evaluation of preferred approach

**September 2014** Final public review of preferred approach

**December 2014** Metro Council considers adoption of preferred approach

**January 2015** Submit adopted approach to Land Conservation and Development Commission for approval

## Climate Smart Communities Scenarios Project timeline



## WHERE CAN I FIND MORE INFORMATION?

[www.oregonmetro.gov/climatescenarios](http://www.oregonmetro.gov/climatescenarios)

Visit the project website to learn more about existing community efforts and their challenges, and to download other publications and reports.

For email updates, send a message to [climatescenarios@oregonmetro.gov](mailto:climatescenarios@oregonmetro.gov)

# MAKING A GREAT PLACE



JAN. 29, 2014



## Phase 2: 2010 base year and alternative scenario inputs

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

		2010	2035		
Strategy		Base Year Reflects existing conditions	Scenario A Recent trends	Scenario B Adopted plans	Scenario C New plans and policies
Community design	Households in mixed use areas (percent)	26%	36%	37%	37%
	Urban growth boundary expansion (acres)	2010 UGB	28,000 acres	12,000 acres	12,000 acres
	SOV trips under 10 miles that shift to bike (percent)	9%	10%	15%	20%
	Transit service (daily revenue miles)	73,000 miles	80,000 miles	91,000 miles (RTP Financially Constrained)	159,000 miles (RTP State + more transit)
	Work/non-work trips in areas with parking management (percent)	13% / 8%	13% / 8%	30% / 30%	50% / 50%
Pricing	Pay-as-you-drive insurance (percent of households participating)	0%	20%	40%	100%
	Gas tax (cost per gallon 2005\$)	\$0.42	\$0.48	\$0.73	\$0.18
	Road user fee (cost per mile 2005\$)	\$0	\$0	\$0	\$0.03
	Carbon emissions fee (cost per ton)	\$0	\$0	\$0	\$50.00

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

### Strategy

		2010	2035		
		Base Year Reflects existing conditions	Scenario A Recent trends	Scenario B Adopted plans	Scenario C New plans and policies
Marketing and incentives	Households participating in eco-driving (percent)	0%	0%	30%	60%
	Households participating in individualized marketing programs (percent)	9%	30%	30%	60%
	Workers participating in employer-based commuter programs (percent)	20%	20%	20%	40%
	Car-sharing in high density areas (target participation rate)	One car share per 5000 vehicles	Twice the number of car share vehicles available	Same as Scenario A	Four times the number of car share vehicles available
	Car-sharing in medium density areas (target participation rate)	One car share per 5000 vehicles	Same as today	Twice the number of car share vehicles available	Same as Scenario B
Roads	Freeway and arterial expansion (lane miles added from 2010)	N/A	9 miles	81 miles (RTP Financially Constrained)	105 miles (RTP State)
	Delay reduced by traffic management strategies (percent)	10%	10%	20%	35%
Fleet	Fleet mix (percent)	auto: 57% light truck: 43%	auto: 71% light truck: 29%		
	Fleet turnover rate (age)	10 years	8 years		
Technology	Fuel economy (miles per gallon)	auto: 29.2 mpg light truck: 20.9 mpg	auto: 68.5 mpg light truck: 47.7 mpg		
	Carbon intensity of fuels	90 g CO <sub>2</sub> e/megajoule	72 g CO <sub>2</sub> e/megajoule		
	Plug-in hybrid electric/all electric vehicles (percent)	auto: 0%/1% light truck: 0%/1%	auto: 8%/26% light truck: 2%/26%		

**CLIMATE  
SMART**  
COMMUNITIES  
SCENARIOS PROJECT

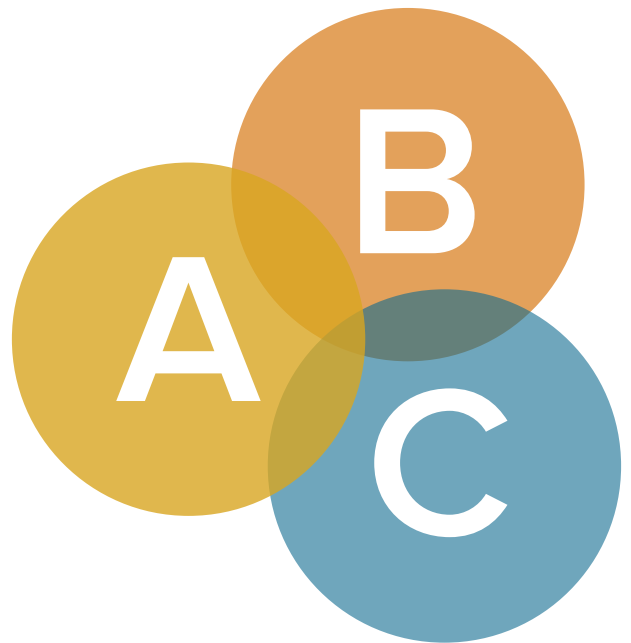


# SHAPING THE PREFERRED APPROACH

.....  
**A DISCUSSION GUIDE FOR POLICYMAKERS**  
.....

**PORTLAND METROPOLITAN REGION**

**APRIL 2014**



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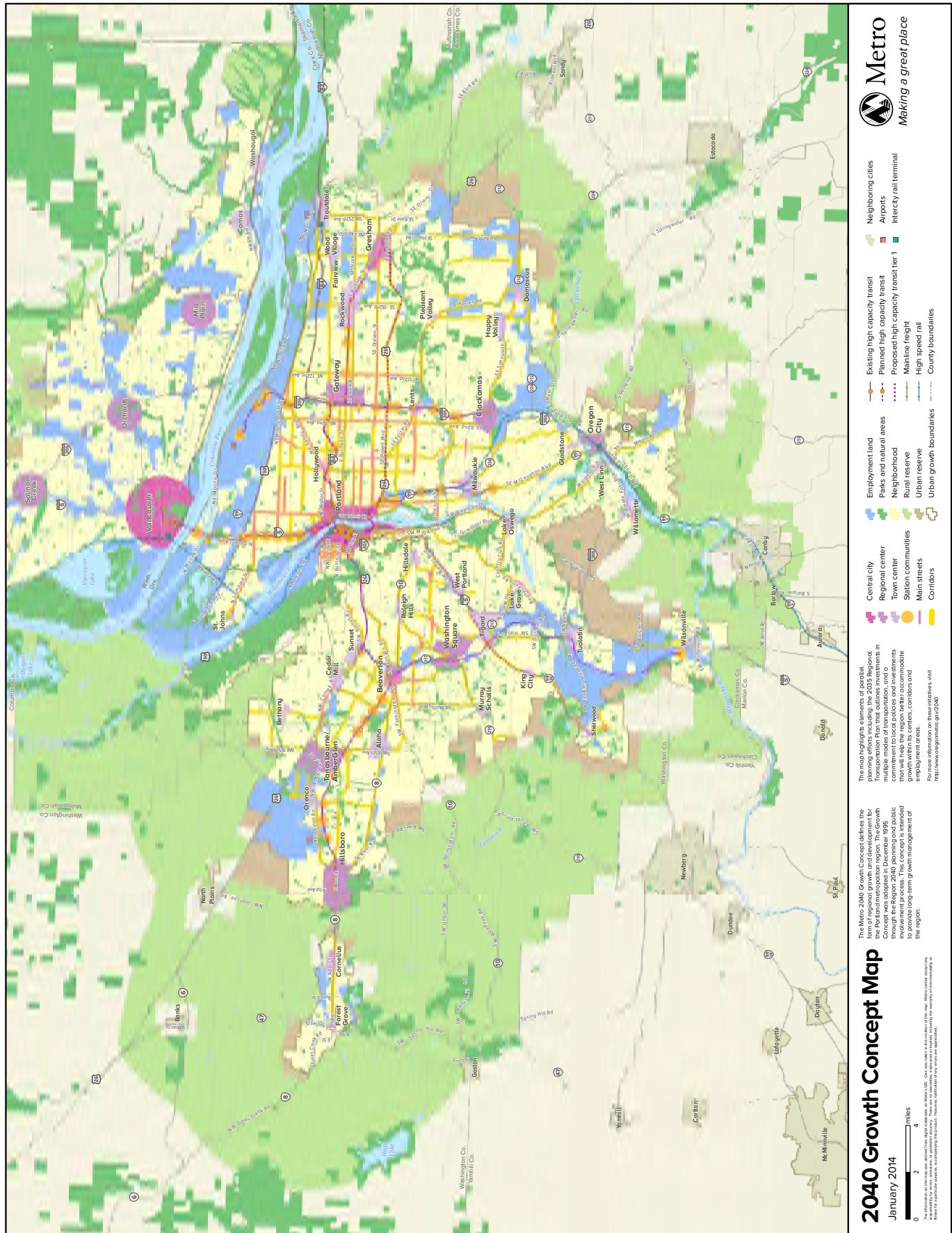
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Attachment D

## OUR SHARED VISION: THE 2040 GROWTH CONCEPT

An integrated land use and transportation vision for building healthy, equitable communities and a strong economy while reducing greenhouse gas emissions.



# INTRODUCTION

The Climate Smart Communities Scenarios Project was initiated in response to a state mandate to reduce per capita greenhouse gas emissions from cars and small trucks by 2035.

The goal of the project is to engage community, business, public health and elected leaders in a discussion to shape a preferred approach that supports local plans for downtowns, main streets and employment areas; protects farms, forestland, and natural areas; creates healthy, livable neighborhoods; increases travel options; and grows the regional economy while reducing greenhouse gas emissions from cars and small trucks.



## ABOUT THIS GUIDE

This discussion guide for policymakers is designed to help elected, business, and community leaders and residents better understand the challenges and choices facing the Portland metropolitan region. It will be used by members of the Metro Policy Advisory Committee (MPAC) and Joint Policy Advisory Committee on Transportation (JPACT) to help shape a preferred approach for the Metro Council to consider for adoption in December 2014.

This guide brings together the results of the analysis completed in late 2013 and background information on the choices facing policymakers as the Climate Smart Communities Scenarios Project moves forward to shape a preferred approach that supports the region's shared values and helps make local and regional plans a reality.

The desired outcome for this discussion guide is that together, cities, counties and regional partners will be prepared to decide which investments and actions from each scenario should be included in the preferred approach.

### What the future might look like in 2035

#### SCENARIO



#### Recent Trends

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

#### SCENARIO



#### Adopted Plans

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

#### SCENARIO



#### New Plans and Policies

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

The scenarios are tested for research purposes only and do not necessarily reflect current or future policy decisions of the Metro Council, MPAC or JPACT.



## DESIRED REGIONAL OUTCOMES

### ATTRIBUTES OF GREAT COMMUNITIES

The six desired outcomes for the region endorsed by the Metro Policy Advisory Committee and approved by the Metro Council:

#### **Vibrant communities**

People live and work in vibrant communities where their everyday needs are easily accessible.

#### **Economic prosperity**

Current and future residents benefit from the region's sustained economic competitiveness and prosperity.

#### **Safe and reliable transportation**

People have safe and reliable transportation choices that enhance their quality of life.

#### **Leadership on climate change**

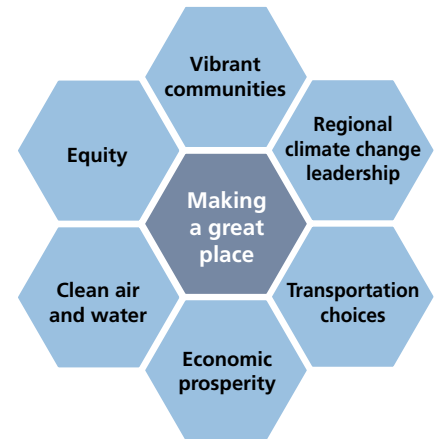
The region is a leader in minimizing contributions to global warming.

#### **Clean air and water**

Current and future generations enjoy clean air, clean water, and healthy ecosystems.

#### **Equity**

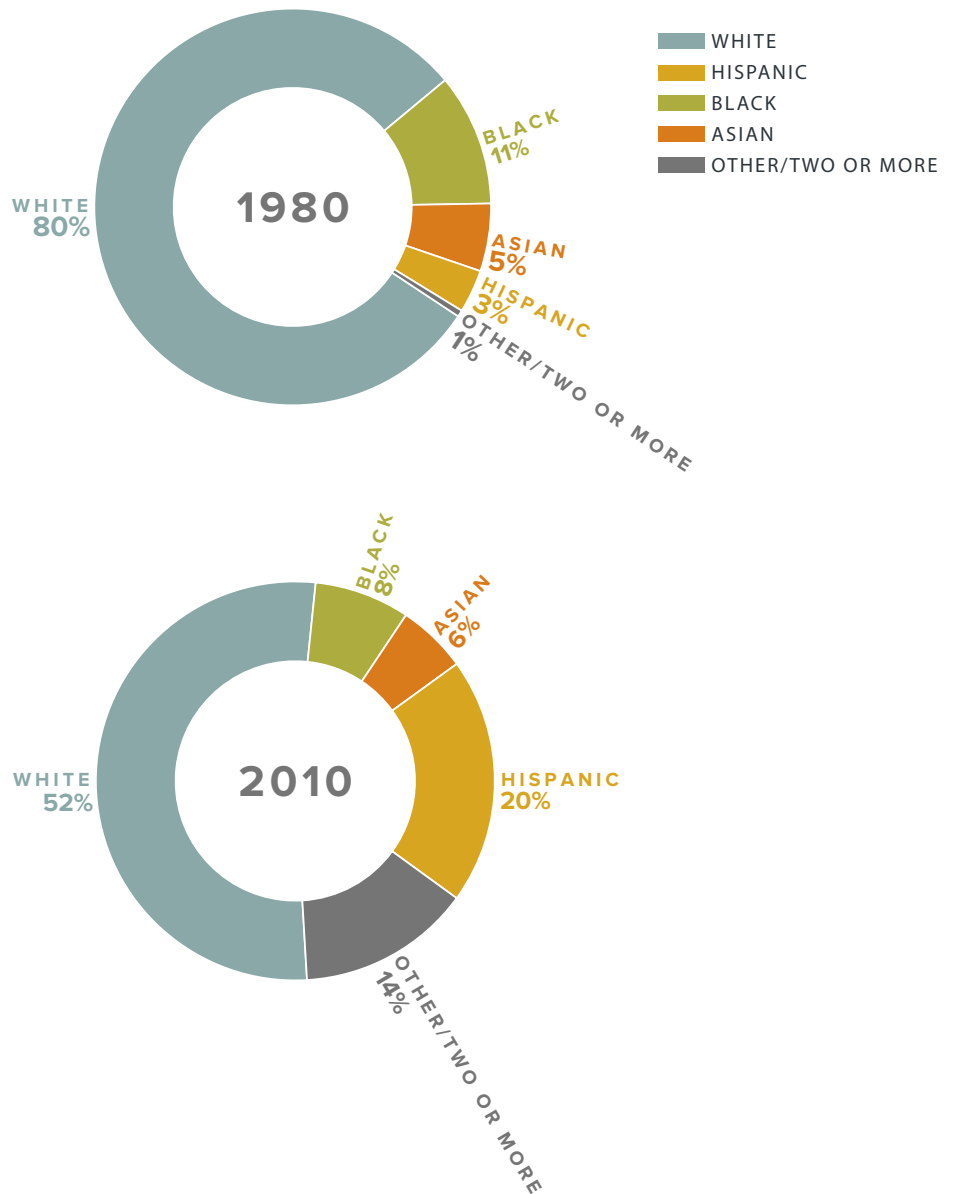
The benefits and burdens of growth and change are distributed equitably.





People of color are an increasingly significant percentage of the Portland metropolitan region's population. Areas with high poverty rates and people of color are located in all three of the region's counties – often in neighborhoods with limited transit access to family wage jobs and gaps in walking and bicycling networks.

#### RACE AND ETHNICITY IN THE PORTLAND METROPOLITAN REGION



# REGIONAL CONTEXT

## OUR REGION IS CHANGING

The Portland metropolitan region is an extraordinary place to call home. Our region has unique communities with inviting neighborhoods, a diverse economy and a world-class transit system. The region is surrounded by stunning natural landscapes and criss-crossed with a network of parks, trails and wild places within a walk, bike ride or transit stop from home. Over the years, the communities of the Portland metropolitan region have taken a collaborative approach to planning that has helped make our region one of the most livable in the country.

Because of our dedication to planning and working together to make local and regional plans a reality, we have set a wise course for managing growth – but times are challenging. With a growing and increasingly diverse population and an economy that is still in recovery, residents of the region along with the rest of the nation have reset expectations for financial and job security.

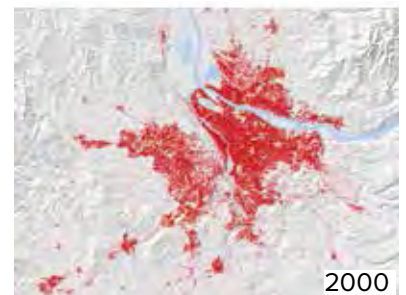
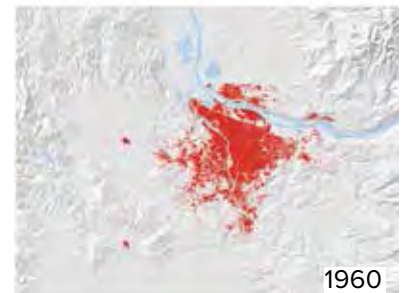
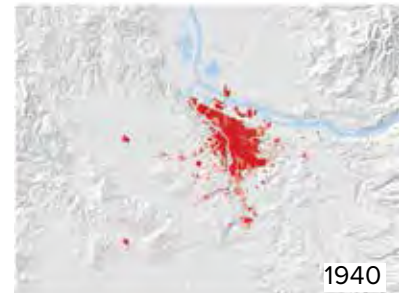
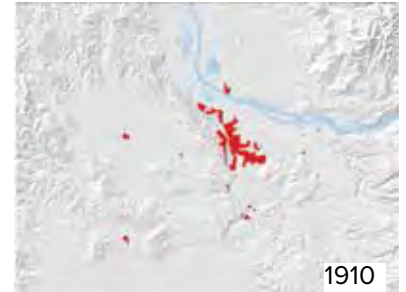
Aging infrastructure, rising energy costs, a changing climate, and global economic and political tensions demand new kinds of leadership, innovation and thoughtful deliberation and action to ensure our region remains a great place to live, work and play for everyone.

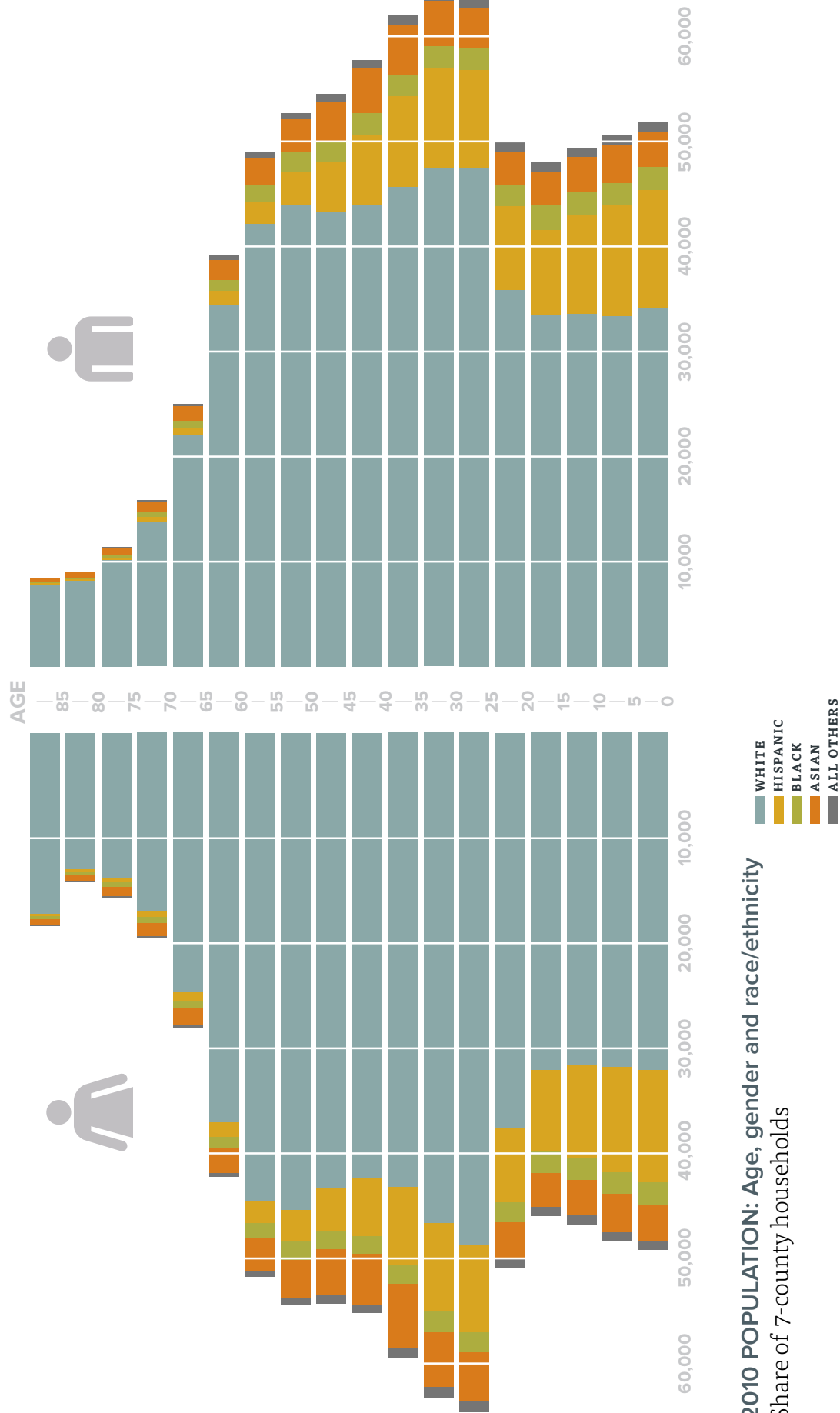
In collaboration with city, county, state, business and community leaders, Metro has researched how land use and transportation policies and investments can be leveraged to respond to these challenges.

---

The region expects to welcome nearly 500,000 new residents and more than 365,000 new jobs within the urban growth boundary by 2035.

---


Sources: 1910, 1940, 1960 - Oregon Metropolitan Planning Commission Maps; 2000, 2010 - NOAA/CES/USDA



## INVESTING IN OUR COMMUNITIES

Oregon has been a leader among a handful of states in addressing climate change, with an ambitious goal to reduce greenhouse gas (GHG) emissions from all sources to 75 percent below 1990 levels by the year 2050. In 2009, the Oregon Legislature required the Portland metropolitan region to develop an approach to reduce per capita greenhouse gas emissions from cars and small trucks by 2035.

Because our community visions focus development and investment where it makes sense – in downtowns, main streets and employment areas – and support transportation options for getting to work, school, and destinations across the region, we already drive 20 percent fewer miles every day than residents of other regions of similar size.

While our existing local and regional plans for growth can get us to the 2035 target, we still have work to do to make those plans a reality.

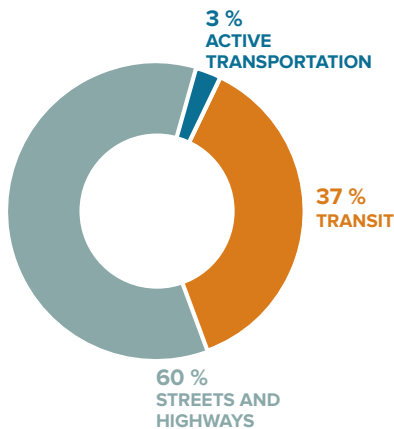
We know that investing in quality infrastructure is essential to a functioning, vibrant economy and healthy, livable communities. Investment in infrastructure is also needed to reduce greenhouse gas emissions. Past experience and analysis indicate that investments in centers, corridors and employment areas are an effective means of attracting growth to these areas, supporting community visions and values, and reducing greenhouse gas emissions.

Investments can take the form of expanding transit service; building new sidewalks, bikeways or street connections; using technology to actively manage the transportation system; managing parking; providing travel option programs; expanding existing roads; and other tools. Removing barriers to more efficient use of land and existing infrastructure can also help communities achieve their vision for the future while reducing greenhouse gas emissions as called for by the state.



The Oregon Legislature has required the Portland region to reduce per capita greenhouse gas emissions from cars and small trucks by 2035.

SHARE OF FEDERAL AND STATE  
CAPITAL INVESTMENTS IN THE  
PORTLAND METROPOLITAN  
REGION BY MODE (1995 – 2010)



AVERAGE ANNUAL AMOUNT  
OF STATE AND FEDERAL  
FUNDING SPENT ON CAPITAL  
INVESTMENTS IN THE PORTLAND  
METROPOLITAN REGION  
(1995 – 2010)

**\$10 million per year**  
active transportation

**\$141 million per year**  
transit

**\$225 million per year**  
streets and highway

Source: Metro 2010

## PAYING FOR NEEDED INVESTMENTS

Our nation is investing less in infrastructure today than at any time in our history. The Portland metropolitan region is falling behind on making the investments needed to support our growing population and achieve community visions. Research in 2008 estimated the cost of building needed public and private infrastructure to be \$27 to \$41 billion by 2035. Traditional funding sources are expected to cover only half that amount.

Funding for transportation investments comes from many sources, including the U.S. Congress, the Federal Highway Administration, the Federal Transit Administration, the Oregon Legislature, ODOT, Metro, cities, counties, TriMet, South Metro Region Rapid Transit (SMART), the Port of Portland and developers.

Transportation funding has long been primarily a state and federal obligation, financed largely through gas taxes and other user fees. The purchasing power of federal and state gas tax revenues is declining as individuals drive less and fuel efficiency increases. The effectiveness of this revenue source is further eroded because the gas tax is not indexed to inflation. These monies are also largely dedicated to streets and highways – primarily maintenance and preservation – and to a limited extent, system expansion.

We also need to complete gaps in our region's transit, walking and biking networks to help expand affordable travel options, yet active transportation currently lacks a dedicated funding source. Expansion and operation of the transit system has relied heavily on payroll taxes for operations and competitive federal funding for high capacity transit. But the region's demand for frequent and reliable transit service exceeds the capacity of the payroll tax to support it.

Until the 2009 passage of the Jobs and Transportation Act (House Bill 2001) raised the state gas tax in 2011 by six cents, this revenue source had not increased since 1993. Similarly, the federal gas tax has not increased since 1993. This failure of fundraising to keep pace with infrastructure needs has been particularly acute in Oregon, as most states have turned to increased sales tax levies to cope with the decrease in purchasing power of federal transportation funding. Lacking a sales tax or other tools, Oregon has focused on bonding strategies based on future revenue at the state level and therefore has not developed a long-term strategy.

As the region's economy and its labor and housing markets continue to recover from the Great Recession, resources remain limited for making the investments needed to support our growing communities. Diminished resources mean reduced ability to maintain, improve and expand existing transportation infrastructure.

As a result, the existing transportation system is incomplete, overburdened and underfunded. Because federal and state funding is not keeping pace with infrastructure operation and maintenance needs, a substantial share of funding for future regional transportation investments has shifted to local revenue sources. Local governments in the Portland metropolitan region (like others in Oregon) have turned to increased tax levies, road maintenance fees, system development charges and traffic impact fees in attempt to keep pace, although some communities have been more successful than others.

The adopted Regional Transportation Plan calls for stabilizing existing transportation revenue sources while securing new and innovative long-term sources of funding adequate to build, operate and maintain the regional transportation system for all modes of travel.




---

At a time when local, state and federal resources needed to address our aging infrastructure are limited, we have a unique opportunity to find a better way to support our communities, attract new business, and grow the economy.

---

The Climate Smart Communities Scenarios Project has shown that the same kinds of investments that can help address these infrastructure needs can also help achieve our greenhouse gas emissions reduction goals. These kinds of investments will also help communities grow in ways that will support local economies for decades to come. Working together, we can develop the local, regional, state and federal partnerships needed to invest in our communities and realize our plans.



## TODAY'S CHOICES SHAPE THE FUTURE

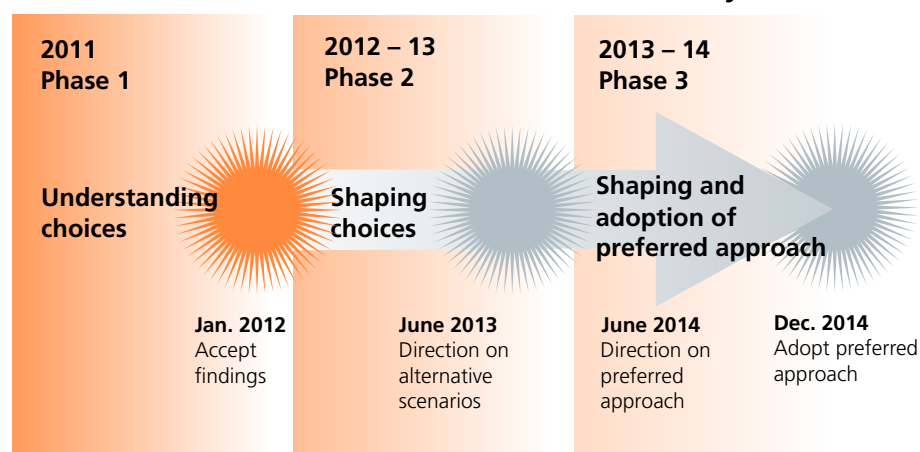
The region's charge from the state is to identify and adopt a preferred approach for meeting the target by December 2014. The choices we make today about how we live, work and get around will shape the future of the region for generations to come. The project is being completed in three phases – and has entered the third and final phase.

The first phase began in 2011 and concluded in early 2012. This phase consisted of testing strategies on a regional level to understand which strategies can most effectively help the region meet the state greenhouse gas emissions reduction mandate.

Most of the investments and actions under consideration are already being implemented to varying degrees across the region to realize community visions and other important economic, social and environmental goals.

As part of the first phase, Metro staff researched strategies used to reduce emissions in communities across the region, nation and around the world. This work resulted in a toolbox describing the range of potential strategies, their effectiveness at reducing emissions and other benefits they could bring to the region, if implemented.

### Climate Smart Communities Scenarios Project timeline





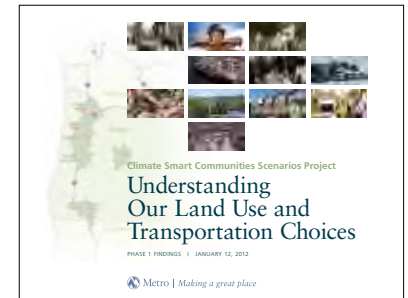
We found there are many ways to reduce emissions while creating healthy, more equitable communities and a vibrant regional economy, but no single solution will enable the region to meet the state's target.

Investing in communities in ways that support local visions for the future will be key to reducing greenhouse gas emissions. Providing schools, services and shopping near where people live, improving bus and rail transit service, building new street connections, using technology to manage traffic flow, encouraging electric cars and providing safer routes for walking and biking all can help.

The second phase began in 2012 and concluded in October 2013. In this phase, Metro worked with community leaders to shape three approaches – or scenarios – and the criteria to be used to evaluate them. In the summer, 2013, Metro analyzed the three approaches to investing in locally adopted land use and transportation plans and policies.

The purpose of the analysis was to better understand the impact of those investments to inform the development of a preferred approach in 2014. Each scenario reflects choices about how and where the region invests to implement locally adopted plans and visions. They illustrate how different levels of leadership and investment could impact how the region grows over the next 25 years and how those investments might affect different aspects of livability for the region.

The results of the analysis were released in fall 2013.



### Three approaches that we evaluated in 2013

#### SCENARIO

A

#### Recent Trends

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

#### SCENARIO

B

#### Adopted Plans

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan which relies on increased revenue.

#### SCENARIO

C

#### New Plans and Policies

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

# WHAT WE'VE LEARNED SO FAR

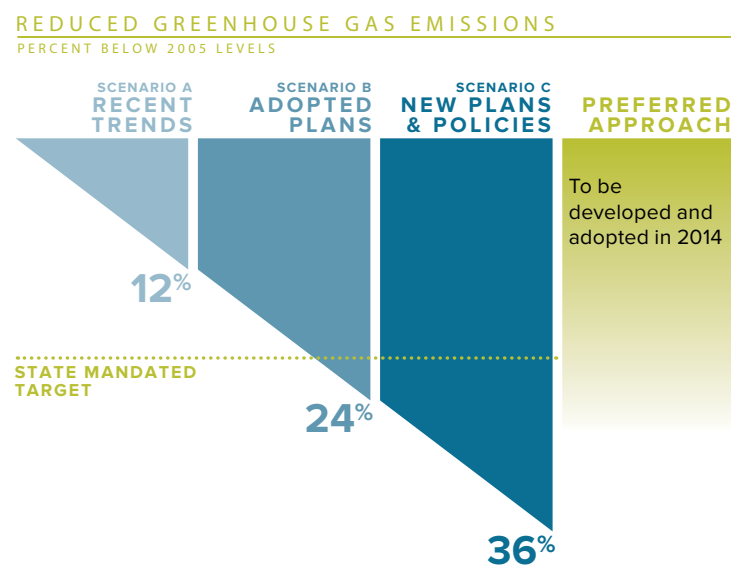
## WE FOUND GOOD NEWS

Our Phase 2 analysis indicates that adopted local and regional plans can meet the state target for reducing greenhouse gas emissions – if we make the investments and take the actions needed to implement those plans and make them a reality.

The analysis also identified potentially significant benefits that can be realized by implementing adopted plans (Scenario B) and new policies and plans (Scenario C), including cleaner air, improved public health and safety, reduced congestion and delay, and travel cost savings that come from driving shorter distances and using more fuel efficient vehicles.

The analysis showed that if we continue investing at our current levels (Scenario A) we will fall short of what has been asked of our region, as well as other outcomes we are working to achieve – healthy communities, clean air and water, reliable travel options, and a strong regional economy.

More results are provided in the “Supplemental Materials” section of this guide.



The reduction target is from 2005 emissions levels after reductions expected from cleaner fuels and more fuel-efficient vehicles.

## BUT THERE IS MORE WORK TO BE DONE

**We're all in this together** Local, regional, state and federal partnerships are needed to make the investments and take the actions needed to implement adopted local and regional plans and meet the state target. Our findings can help the region make the case for the increased investment and new partnerships that will be needed to implement the preferred approach the Metro Council considers for adoption in December 2014.

**Implementation goes hand in hand with community engagement and participation** We must continue working with community leaders to build capacity of organizations and their members to participate in ongoing local and regional planning and implementation efforts. This will help ensure meaningful opportunities for participation of public health, social equity and environmental justice leaders and the communities they represent as we move forward to eliminate disparities.

**A transition to cleaner fuels and more fuel-efficient vehicles is essential** Oregon cannot achieve its greenhouse gas emissions reduction goals without the significant advancements in fleet and technology committed to by the state. It is critical for the Oregon Legislature and state commissions to prioritize investments and actions that will catalyze this transition to ensure assumptions used to set our region's emissions reduction target are realized.

**Prioritizing investments that achieve multiple goals in combination with more funding will help us get there** The greatest barrier to implementation is the lack of sufficient funding to make the investments needed for our local and regional plans to become a reality. More state funding is needed to leverage local and regional funding and assist future planning and implementation. With limited funding, it is even more important to prioritize investments that support healthy, equitable communities and a strong economy, while reducing greenhouse gas emissions to create the future we want for the region.

But first, the Metro Council is asking cities, counties, regional partners and the public to weigh in on which investments and actions from each of the three scenarios should go forward into a preferred approach and how we should pay for the needed investments.



A one-size-fits-all approach won't meet the needs of our diverse communities. A combination of all of the investments and actions under consideration is needed to help us realize our shared vision for making this region a great place for generations to come.



The Portland metropolitan region pioneered approaches to land use and transportation planning that make it uniquely positioned to address the state climate goals, due to the solid, well-integrated transportation and land-use systems in place and a history of working together to address complex challenges at a regional scale.

.....

## MOVING FORWARD

In the 1990s, regional policy discussions centered on how and where the region should grow to protect the things that make this region a great place to live, work and play. Those discussions led to the adoption of the region's long-range strategy, the 2040 Growth Concept. This strategy reflects shared community values and desired outcomes that continue to resonate today.

The preferred approach will not replace the 2040 Growth Concept nor be a stand-alone plan. Instead, it will be a set of recommended policies and actions for how the region moves forward to integrate reducing greenhouse gas emissions with ongoing efforts to create the future we want for our region.

### THROUGH MAY 2014

Policymakers weigh in on which investments and actions should be included in the region's preferred approach

### JUNE 2014

The Metro Council is asked to provide direction to staff on the draft preferred approach

### SUMMER 2014

Evaluation of the preferred approach and development of a near-term implementation plan

### SEPTEMBER 2014

Final public review of the preferred approach

### DECEMBER 2014

Metro Council considers adoption of the preferred approach

### JANUARY 2015

Submit adopted approach to Land Conservation and Development Commission for approval

## WHAT IS THE PREFERRED APPROACH?

The preferred approach will be a set of recommended policies and actions for how the region moves forward to integrate reducing greenhouse gas emissions with ongoing efforts to create the future we want for our region.

**LEGISLATION** The Metro Council will consider adoption of legislation signaling the region's commitment to the preferred approach through the ongoing implementation of the 2040 Growth Concept. The legislation will include:

**POLICIES** Regional Framework Plan (RFP) amendments

- Changes to refine existing RFP policies and/or add new policies to achieve the preferred approach.

**ACTIONS** Recommended actions

- Menu of investments and other tools needed to achieve the preferred approach that can be tailored by each community to implement local visions.
- Near-term actions needed to implement and achieve the preferred approach. This could include:
  - state and federal legislative agendas that request funding, policy changes or other tools needed to achieve preferred approach
  - identification of potential/likely funding mechanisms for key actions
  - direction to the 2018 Regional Transportation Plan update
  - direction to future growth management decisions
  - direction for functional plan amendments that guide local implementation, if needed.
- Monitoring and reporting system that builds on existing performance monitoring requirements per ORS 197.301 and updates to the Regional Transportation Plan.



Through this collaborative effort, we can identify how the region should work together to develop new kinds of leadership and the local, regional, state and federal partnerships needed to invest in communities to make local and regional plans a reality.

# POLICY QUESTIONS FOR 2014

## WHAT CHOICES HAVE BEEN MADE?

In February, the Metro Policy Advisory Committee and Joint Policy Advisory Committee on Transportation approved a path for moving forward with an eight-step process to shape and adopt a preferred approach in 2014. As recommended by MPAC and JPACT, the preferred approach will start with the plans cities, counties and the region have already adopted – from local zoning, capital improvement, comprehensive, and transportation system plans to the 2040 Growth Concept and regional transportation plan – to create great communities and build a vibrant economy.

This includes managing the urban growth boundary through regular growth management cycles (currently every six years). In addition, MPAC and JPACT agreed to include assumptions for cleaner fuels and more fuel-efficient vehicles as defined by state agencies during the 2011 target-setting process. A third component they recommended be included in the preferred approach is the Statewide Transportation Strategy assumption for vehicle insurance paid by the miles driven.

### WHAT CHOICES HAVE BEEN MADE?

In January and February of 2014, MPAC, JPACT and the Metro Council agreed these elements should be included in the draft preferred approach as a starting point:

- ☒ **Implement adopted regional and local plans**  
Implement the 2040 Growth Concept and local zoning, comprehensive and transportation plans and manage the urban growth boundary through regular growth management cycles.
- ☒ **Transition to cleaner fuels and fuel-efficient vehicles**  
Rely on state fleet and technology assumptions used when setting our region's target.
- ☒ **Support vehicle insurance paid by the miles driven**  
Use state assumptions for pay-as-you-drive insurance.

## WHAT CHOICES DO WE STILL NEED TO MAKE?

Since January 2014, the Metro Council has engaged community and business leaders, local governments and the public on what mix of investments and actions best support their community's vision for healthy and equitable communities and a strong economy while reducing greenhouse gas emissions.

Through May 2014, policymakers will consider the results of the engagement activities and scenarios evaluation as they weigh in on these policy questions:

- ☐ **How much transit should we provide by 2035?**
- ☐ **How much should we use technology to actively manage the transportation system by 2035?**
- ☐ **How much should we expand the reach of travel information programs by 2035?**
- ☐ **How much of the planned active transportation network should we complete by 2035?**
- ☐ **How much of the planned street and highway network should we complete by 2035?**
- ☐ **How should local communities manage parking by 2035?**
- ☐ **How should we pay for our investment choices by 2035?**

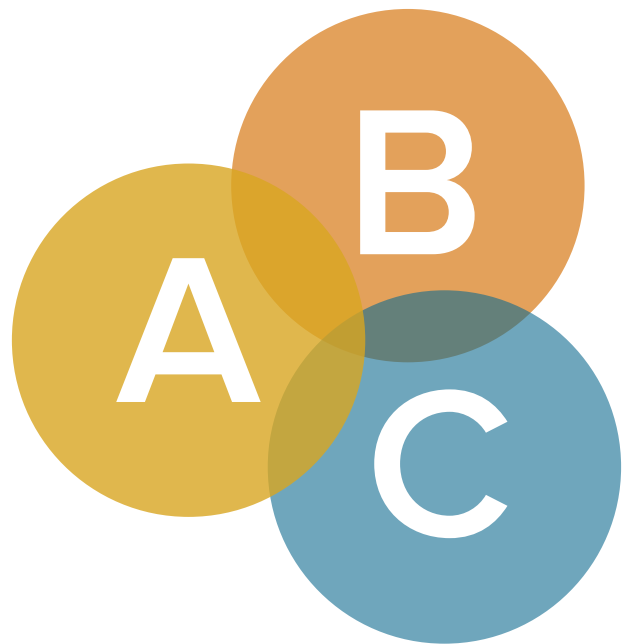






# POLICY AREAS

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## OVERVIEW OF POLICY AREAS

This section provides background information on the seven policy areas being considered by the region's policymakers:

- Make transit more convenient, frequent, accessible and affordable
- Use technology to actively manage the transportation system
- Provide information and incentives to expand the use of travel options
- Make biking and walking more safe and convenient
- Make streets and highways more safe, reliable and connected
- Manage parking to make efficient use of parking resources
- Identify potential ways to pay for our investment choices

The first three pages include a description of the policy, its potential climate benefit, cost, implementation benefits and challenges, and a summary of the how the policy is implemented for each scenario. The last page of each description summarizes emerging themes and specific comments provided during project public engagement activities.

### EXPLANATION OF THE CLIMATE BENEFIT RATINGS

In Phase 1 of the project, staff conducted a sensitivity analysis to better understand the greenhouse gas emissions reduction potential of individual policies. The information derived from the sensitivity analysis was used to develop a five-star rating system for communicating the relative climate benefits of different policies. The ratings represent the potential effects of individual policy areas in isolation and do not capture variations that may occur from synergies between multiple policies.

Estimated reductions assumed in climate benefits ratings	
less than 1%	★ ★ ★ ★ ★
1 – 2%	★ ★ ★ ★ ★
3 – 6%	★ ★ ★ ★ ★
7 – 15%	★ ★ ★ ★ ★
16 – 20%	★ ★ ★ ★ ★

**Source** Memo to TPAC and interested parties on Climate Smart Communities: Phase 1 Metropolitan GreenSTEP scenarios sensitivity analysis (June 21, 2012)

### EXPLANATION OF THE RELATIVE COST RATINGS

Like the relative climate benefit ratings, the cost ratings provide a quick reference for comparing the relative cost of investments between policy areas. The estimated cost of each policy area for each scenario is provided below.

The relative climate benefit and cost ratings are provided to simplify information presented for purposes of discussion.

### ESTIMATED COSTS FOR EACH SCENARIO BY POLICY AREA (2014\$)

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Transit capital</b>	\$590 million	\$1.9 billion	\$5.1 billion
<b>Transit operations</b>	\$4.8 billion	\$5.3 billion	\$9.5 billion
<b>Technology</b>	\$113 million	\$135 million	\$193 million
<b>Information</b>	\$99 million	\$124 million	\$234 million
<b>Active transportation</b>	\$57 million	\$948 million	\$3.9 billion
<b>Streets and highways capital<sup>1</sup></b>	\$162 million	\$8.8 billion	\$11.8 billion
<b>Parking</b>	n/a	n/a	n/a
<b>Total costs<sup>1</sup></b>	<b>\$6 billion</b>	<b>\$17 billion</b>	<b>\$31 billion</b>

<sup>1</sup>Table note does not include road-related operations, maintenance and preservation costs.



## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Make transit more convenient, frequent, accessible and affordable

There are four key ways to make transit service more convenient, frequent, accessible and affordable. The effectiveness of each will vary depending on the mix of nearby land uses, the number of people living and working in the area, and the extent to which travel information, marketing and technology are used.

**Frequency** Increasing the frequency of transit service in combination with transit signal priority and bus lanes makes transit faster and more convenient.

**System expansion** Providing new community and regional transit connections improves access to jobs and community services and makes it easier to complete some trips without multiple transfers.

**Transit access** Building safe and direct walking and biking routes and crossings that connect to stops makes transit more accessible and convenient.

**Fares** Providing reduced fares makes transit more affordable; effectiveness depends on the design of the fare system and the cost.

Transit is provided in the region by TriMet and South Metro Area Rapid Transit (SMART) in partnership with Metro, cities, counties, employers, business associations and non-profit organizations.

## BENEFITS

- improves access to jobs, the workforce, and goods and services, boosting business revenues
- creates jobs and saves consumers and employers money
- stimulates development, generating local and state revenue
- provides drivers an alternative to congested roadways and supports freight movements by taking cars off the road
- increases physical activity
- reduces air pollution and air toxics
- reduces risk of traffic fatalities and injuries

## CHALLENGES

- transit demand outpacing funding
- enhancing existing service while expanding coverage and frequency to growing areas
- reduced revenue and federal funding, leading to increased fares and service cuts
- preserving affordable housing options near transit
- ensuring safe and comfortable access to transit for pedestrians, cyclists and drivers
- transit-dependent populations locating in parts of the region that are harder to serve with transit



# How much transit should we provide by 2035?

## TRANSIT AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Daily revenue hours</b>	5,600	6,200	11,200
<b>Service expansion</b> (increase from 2010 level)	14% increase	27% increase	129% increase
<b>Rush hour frequency</b>	10-minute service on 10 routes	10-minute service on 13 routes	10-minute service on 37 routes
<b>Off-peak frequency</b>	30-minute service on most routes	20-minute service on most routes	15 or 20-minute service on most routes
<b>New high capacity transit connections</b>	None	Planned connections completed, such as the extension to Vancouver, WA	All regional centers and more town centers served  Priority high capacity transit system plan and Southwest Corridor completed
<b>Other service enhancements</b>	Westside Express Service (WES) and Portland streetcar operate at 2010 frequencies	Same as Scenario A, plus more planned Portland streetcar connections completed	WES operates all day with 15-minute service  Locally-developed Service Enhancement Plans (SEPs) and the planned Portland Streetcar System Plan mostly completed
<b>Public and private shuttles</b>	Existing private shuttles continue to operate between large work sites and major transit stops	Additional major employers and some community-based organizations work with TriMet to operate shuttles	More major employers and some community-based organizations work with TriMet to operate shuttles
<b>Fares</b>	Reduced fares provided to youth, older adults and disabled persons	Same as Scenario A	Same as Scenario A, plus reduced fares provided to low-income families
<b>Estimated capital cost* (2014\$)</b>	<b>\$590 million</b>	<b>\$1.9 billion</b>	<b>\$5.1 billion</b>
<b>Estimated service operating costs** (2014\$)</b>	<b>\$4.8 billion (\$187 million per year)</b>	<b>\$5.3 billion (\$207 million per year)</b>	<b>\$9.5 billion (\$374 million per year)</b>

\* Capital costs reflect HCT capital costs plus fleet replacement and expansion costs.

\*\* Operating costs for TriMet service were calculated by annualizing the daily revenue hours proposed for each scenario and applying TriMet's average operating cost per revenue hour, with cost by mode weighted by the proportion of service provided on each mode. SMART operating costs were calculated by assuming SMART's FY 11-12 annual operating costs are maintained through 2035.

(See Supplemental materials section, Phase 2: Transit Access at a Glance.)

## SCENARIO



## Recent Trends

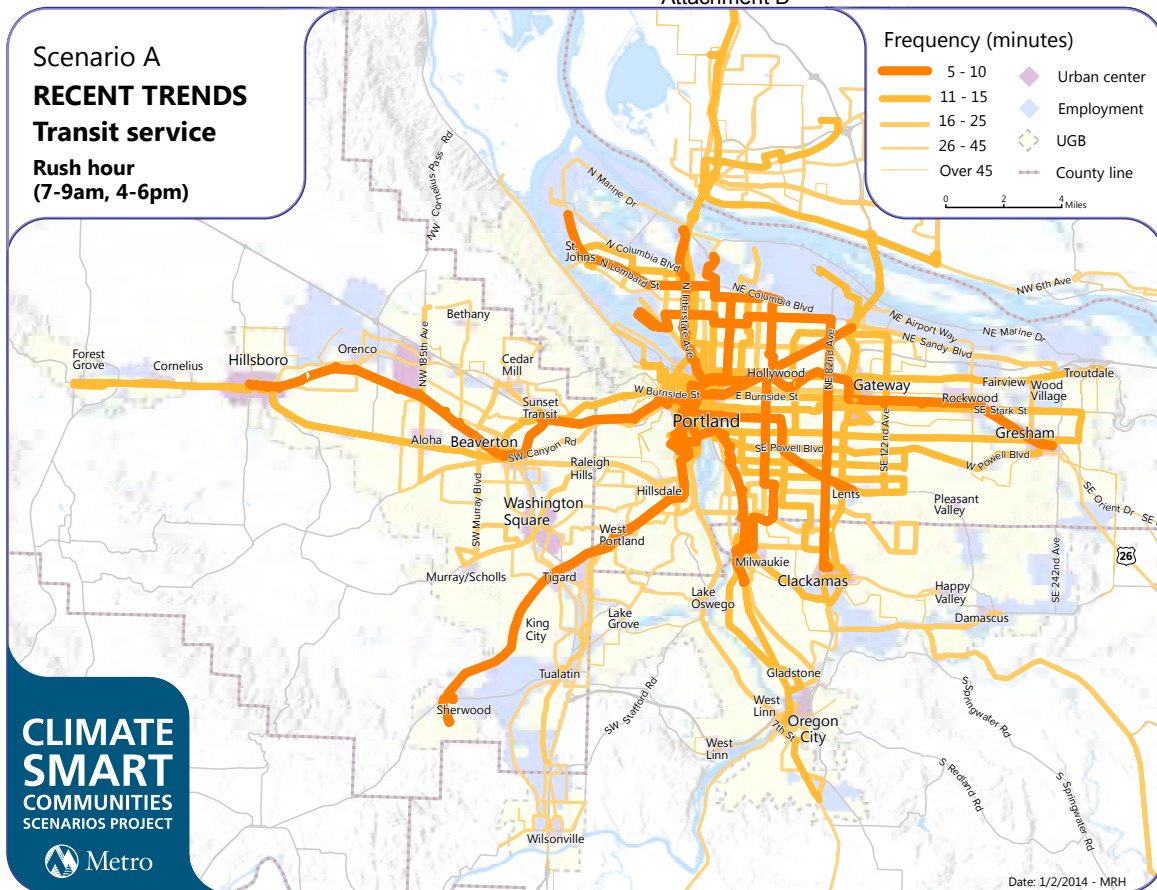
This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

**31% jobs**

**24% households**

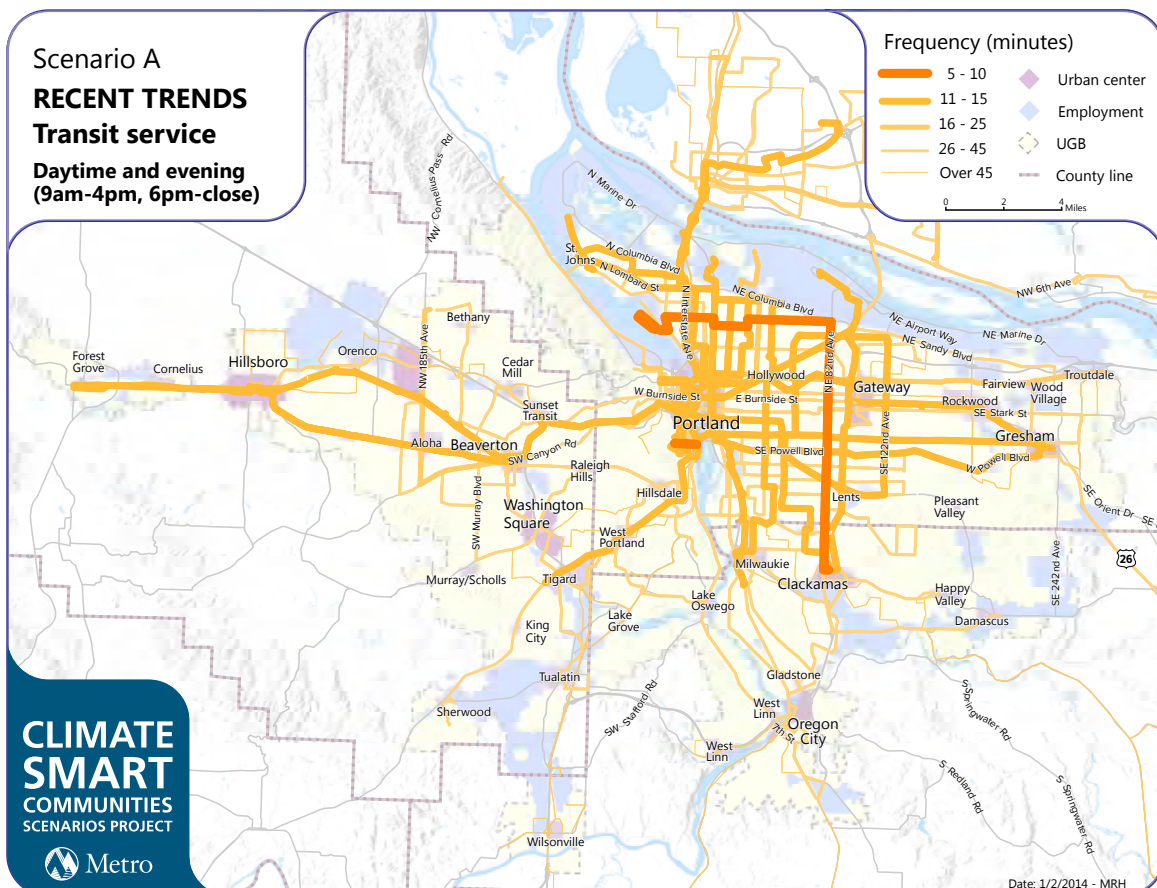
**31% low-income households**

Estimated jobs and households within 1/4-mile of 10-minute or better service by 2035



**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**

Metro



**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**

Metro

**6% jobs**

**4% households**

**5% low-income households**

Estimated jobs and households within 1/4-mile of 10-minute or better service by 2035

**Note** These maps are for research purposes only and do not reflect current or future policy decisions of the Metro Council, MPAC or JPACT.

## SCENARIO

# B

### Adopted Plans

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

**33% jobs**

**27% households**

**34% low-income households**

Estimated jobs and households within ¼-mile of 10-minute or better service by

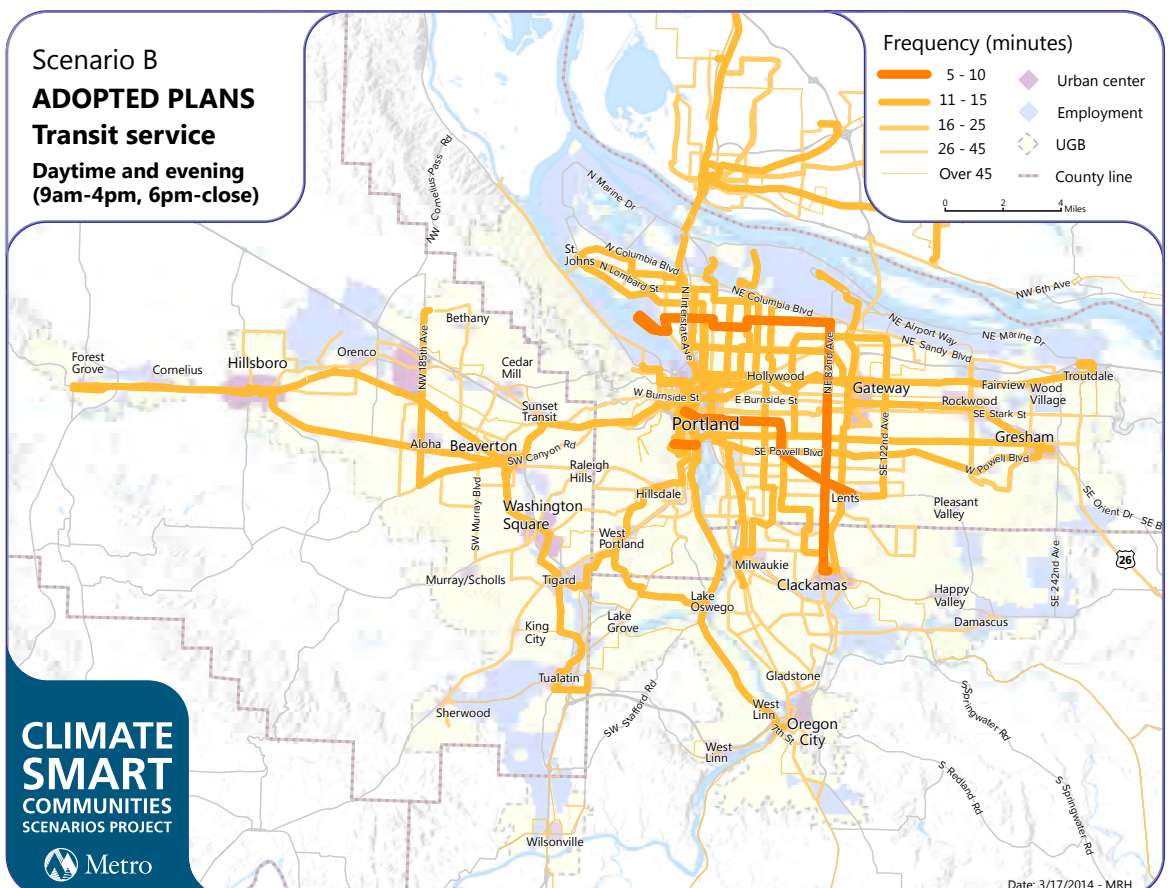
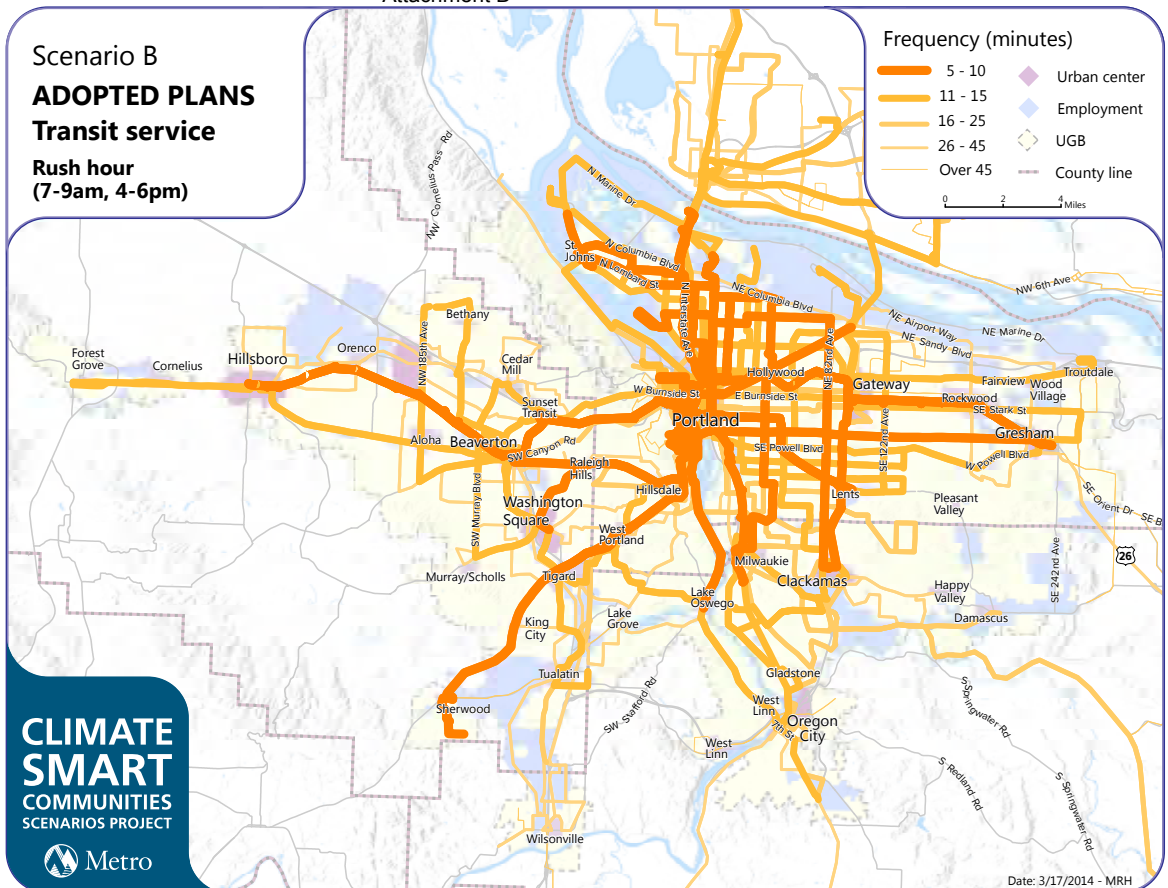
**6% jobs**

**4% households**

**6% low-income households**

Estimated jobs and households within ¼-mile of 10-minute or better service by 2035

## Attachment D





## SCENARIO



### New Plans and Policies

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

**42% jobs**

**32% households**

**40% low-income households**

Estimated jobs and households within 1/4-mile of 10-minute or better service by 2035

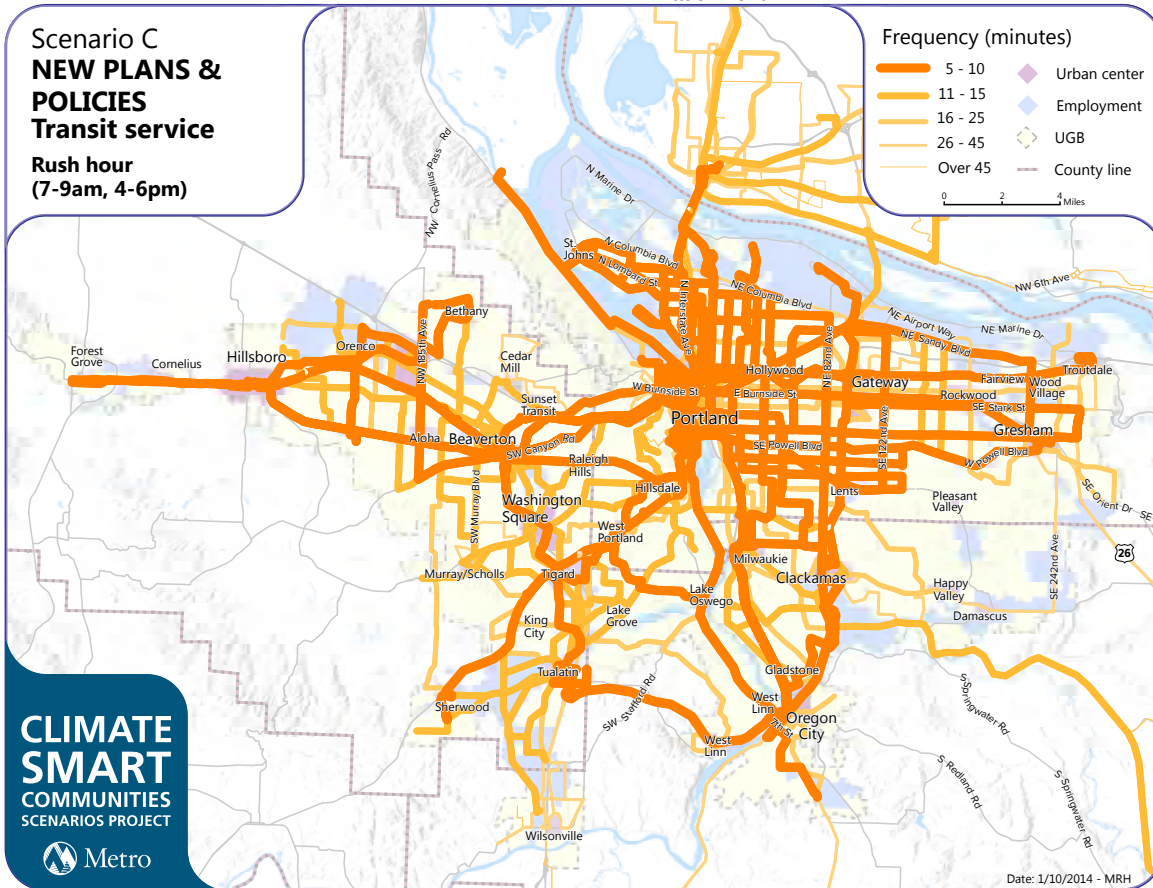
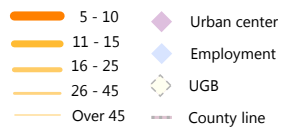
### Scenario C NEW PLANS & POLICIES Transit service

**Rush hour  
(7-9am, 4-6pm)**

**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**



#### Frequency (minutes)



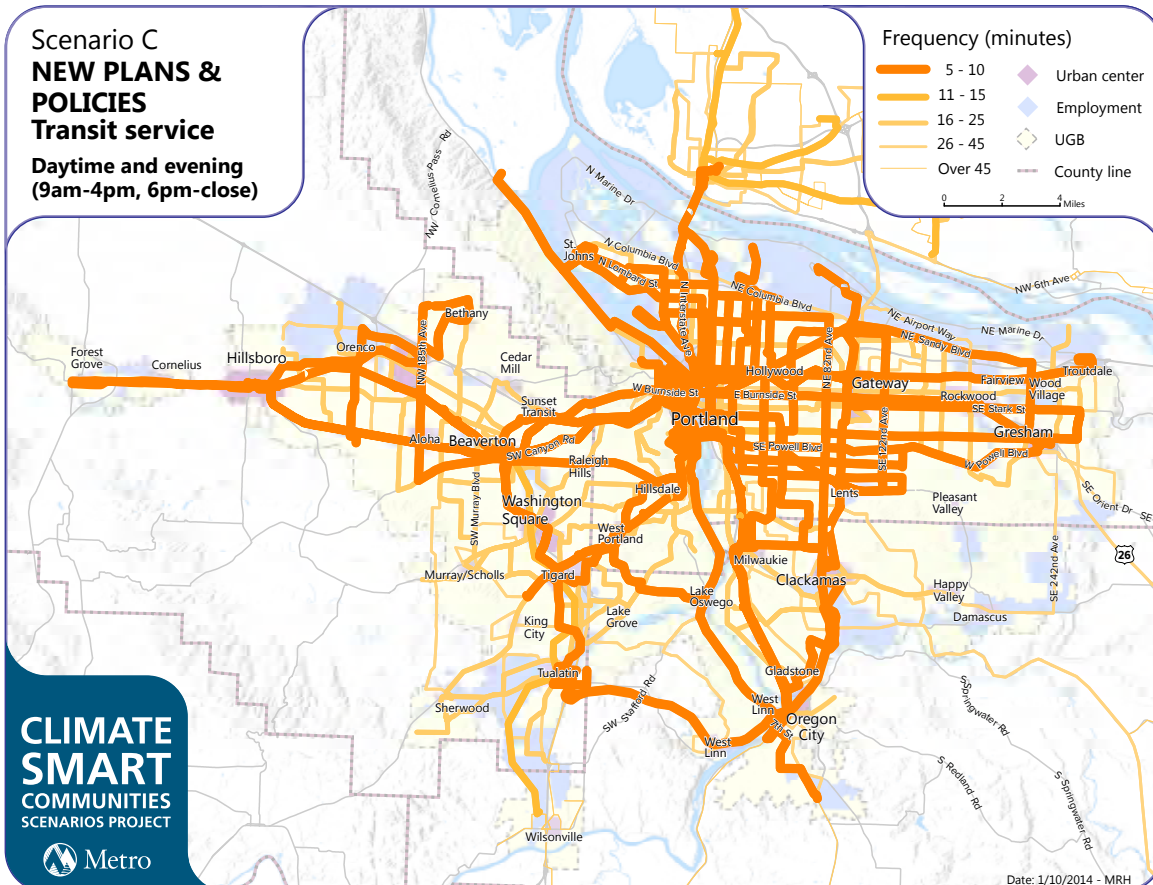
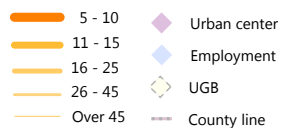
### Scenario C NEW PLANS & POLICIES Transit service

**Daytime and evening  
(9am-4pm, 6pm-close)**

**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**



#### Frequency (minutes)



**23% jobs**

**20% households**

**26% low-income households**

Estimated jobs and households within 1/4-mile of 10-minute or better service by 2035

*Transit needs to be more frequent,  
affordable and connected to more  
places people want to go.*

*To increase the accessibility  
and affordability of public  
transit is paramount.*

*I think we would have great results if we added more to the bus system...because the bus system is very efficient.*

## Emerging themes

- Transit was universally seen as the highest priority investment area because of its high potential to reduce emissions while improving access to jobs and services and supporting other community goals.
- The cost of transit must be kept affordable, particularly for people with disabilities, youth, older adults and those with limited incomes.
- Integration with land use, active transportation, information, technology and a well-connected street system will help transit be more convenient and accessible for more people.
- Important to seek creative local transit service options and partnerships that fit the needs of smaller communities, including shuttles to support crucial last-mile connections.
- Prioritize low-income communities for bus service improvements and ensure that affordable housing and transportation options remain after major transit investments are made in a community.
- More funding for transit is needed.

## Key takeaways to share with others



## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Use technology to actively manage the transportation system

Using technology to actively manage the Portland metropolitan region's transportation system means using intelligent transportation systems (ITS) and services to reduce vehicle idling associated with delay, making walking and biking more safe and convenient, and helping improve the speed and reliability of transit. Nearly half of all congestion is caused by incidents and other factors that can be addressed using these strategies.

Local, regional and state agencies work together to implement transportation system technologies. Agreements between agencies guide sharing of data and technology, operating procedures for managing traffic, and the ongoing maintenance and enhancement of technology, data collection and monitoring systems.

**Arterial corridor management** includes advanced technology at each intersection to actively manage traffic flow. This may include coordinated or adaptive signal timing; advanced signal operations such as cameras, flashing yellow arrows, bike signals and pedestrian count down signs; and communication to a local traffic operations center and the centralized traffic signal system.

**Freeway corridor management** includes advanced technology to manage access to the freeways, detect traffic levels and weather conditions, provide information with variable message signs and variable speed limit signs, and deploying incident response patrols that quickly clear breakdowns, crashes and debris. These tools connect to a regional traffic operations center.

**Traveler information** includes using variable message and speed signs and 511 internet and phone services to provide travelers with up-to-date information regarding traffic and weather conditions, incidents, travel times, alternate routes, construction, or special events.

## BENEFITS

- provides near-term benefits
- reduces congestion and delay
- makes traveler experience more reliable
- saves public agencies, consumers and businesses time and money
- reduces air pollution and air toxics
- reduces risk of traffic fatalities and injuries

## CHALLENGES

- requires ongoing funding to maintain operations and monitoring systems
- requires significant cross-jurisdictional coordination
- workforce training gaps



# How much should we use technology to actively manage the transportation system by 2035?

## TECHNOLOGY AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Advanced traffic signal operations</b>	Traffic signals on some major arterials	Traffic signals on many major arterials	All traffic signals are connected to a centralized system
<b>Transit signal priority</b>	Some bus routes with 10-minute service	All bus routes with 10-minute service	All bus routes with 10-minute service
<b>Freeway ramp meters</b>	Most urban interchanges	Same as Scenario A	All urban interchanges
<b>Freeway variable speed signs</b>	None	Deployed in most high incident locations	Deployed in all high incident locations
<b>Incident response patrols</b>	Some incident response patrols are deployed on area freeways	More incident response patrols are deployed on area freeways	Incident response patrols are deployed on area freeways and major arterials adjacent to freeways
<b>Estimated cost (2014\$)</b>	<b>\$113 million</b>	<b>\$135 million</b>	<b>\$193 million</b>

### SCENARIO

**A**

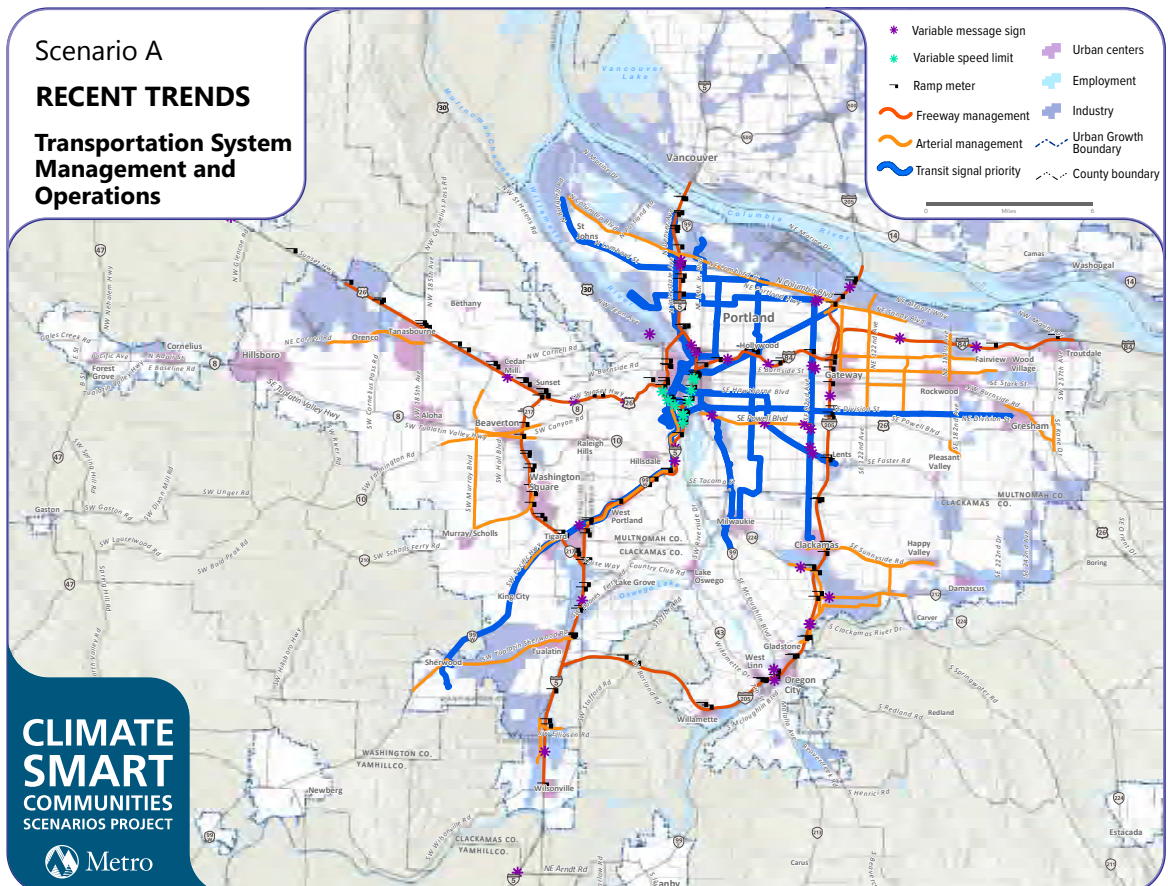
#### Recent Trends

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

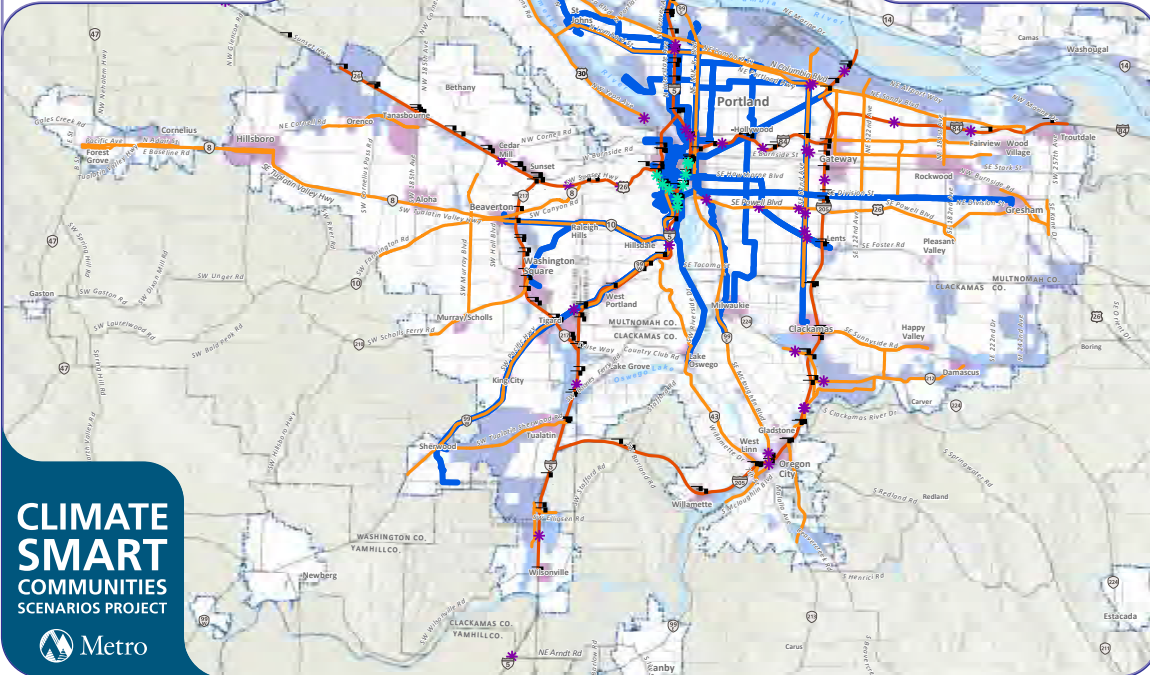
#### 10% on arterials and freeways

Estimated delay reduction by 2035

**Note** These maps are for research purposes only and do not reflect current or future policy decisions of the Metro Council, MPAC or JPACT.



## Scenario B

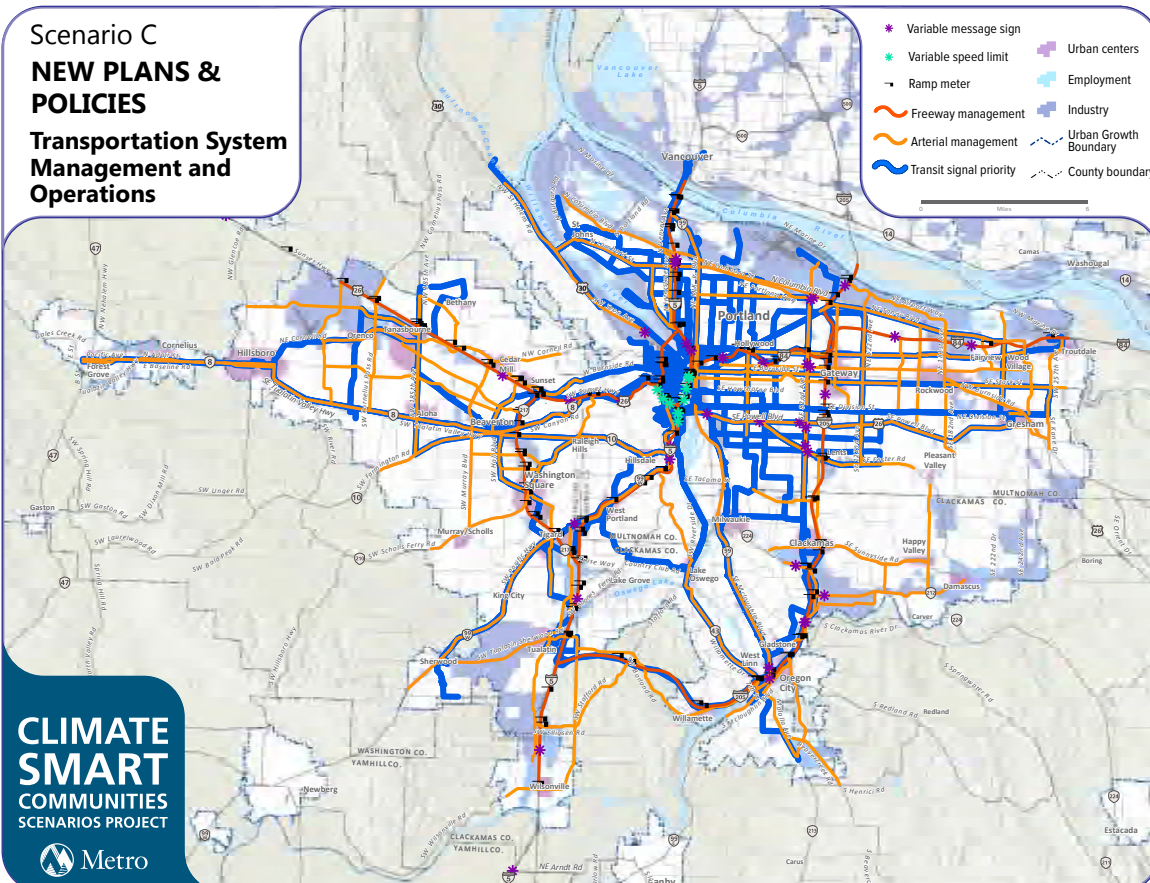
**ADOPTED PLANS****Transportation System Management and Operations****SCENARIO****B****Adopted Plans**

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

**20% on arterials and freeways**

Estimated delay reduction by 2035

## Scenario C

**NEW PLANS & POLICIES****Transportation System Management and Operations****SCENARIO****C****New Plans and Policies**

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

**35% on arterials and freeways**

Estimated delay reduction by 2035

*Drivers need to get the info about delays before they begin their trip.*

- This is a low-cost strategy with immediate benefits that support other capital investments and should be moved forward.
- When compared to traditional capital investments, such as new transit service, roads or additional lanes, these kinds of solutions offer high returns for a comparatively low cost, and can delay or remove the need for additional capital-intensive infrastructure.
- Reducing delay and increasing reliability of the freight network is critical for the health of our regional economy.
- Provide comprehensive real-time traveler information to people and businesses before they begin their trip.

## Key takeaways to share with others





## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Provide information and incentives to expand the use of travel options

Public awareness, education and travel options support tools are cost-effective ways to improve the efficiency of the existing transportation system through increased use of travel options such as walking, biking, carsharing, carpooling and taking transit. Local, regional and state agencies work together with businesses and non-profit organizations to implement programs in coordination with other capital investments. Metro coordinates partners' efforts, sets strategic direction, evaluates outcomes, and manages grant funding.

**Public awareness strategies** include promoting information about travel choices and teaching the public about eco-driving: maintaining vehicles to operate more efficiently and practicing driving habits that can help save time and money while reducing greenhouse emissions.

**Commuter programs** are employer-based outreach efforts that include (1) financial incentives, such as transit pass programs and offering cash instead of parking subsidies; (2) facilities and services, such as carpooling programs, bicycle parking, emergency rides home, and work-place competitions; and (3) flexible scheduling such as working from home or compressed work weeks.

**Individualized Marketing (IM)** is an outreach method that encourages individuals, families or employees interested in making changes in their travel choices to participate in a program. A combination of information and incentives is tailored to each person's or family's specific travel needs. IM can be part of a comprehensive commuter program.

**Travel options support tools** reduce barriers to travel options and support continued use with tools such as the *Drive Less. Connect.* online carpool matching; trip planning tools; wayfinding signage; bike racks; and carsharing.

## BENEFITS

- increases cost-effectiveness of capital investments in transportation
- saves public agencies, consumers and businesses time and money
- preserves road capacity
- reduces congestion and delay
- increases physical activity and reduces health care costs
- reduces air pollution and air toxics

## CHALLENGES

- program partners need ongoing tools and resources to increase outcomes
- factors such as families with children, long transit times, night and weekend work shifts not served by transit
- major gaps exist in walking and biking routes across the region
- consistent data collection to support performance measurement

# How much should we expand the reach of travel information programs by 2035?

## TRAVEL INFORMATION PROGRAMS AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Individualized marketing participation</b>	30% of households	Same as Scenario A	60% of households participate  Same as Scenario B, plus the addition of Safe Routes to school and equity-based campaigns
<b>Commuter program participation</b>	20% of employees reached (same as 2010)  Oregon Employee Commute Options (ECO) rules require work sites with more than 100 employees to have workplace programs	Same as Scenario A	40% of employees reached  ECO rules now include work sites with more than 50 employees
<b>Public awareness marketing campaign</b>	50% of public reached  Existing ongoing and short-term campaigns lead to more awareness of <i>DriveLess. Connect.</i>	Same as Scenario A, plus added resources promote new travel tools, regional efforts and safety education	60% of public reached  Scenario B, plus regionally specific campaigns dedicated to safety and underserved communities
<b>Eco-driving participation</b>	0% of households reached (same as 2010)  Statewide program is newly launched	30% of households reached	60% of households reached
<b>Provisions of travel options support tools</b>	2010 program funding levels allow for completion of several new wayfinding signage and bike rack projects	Same as Scenario A, plus public-private partnerships to create new online, print and on-street travel tools	Same as Scenario B, plus better public-private data integration and more resources for more support tools
<b>Estimated cost (2014\$)</b>	<b>\$99 million</b>	<b>\$124 million</b>	<b>\$234 million</b>

## SCENARIO

**Recent Trends**

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

## SCENARIO

**Adopted Plans**

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

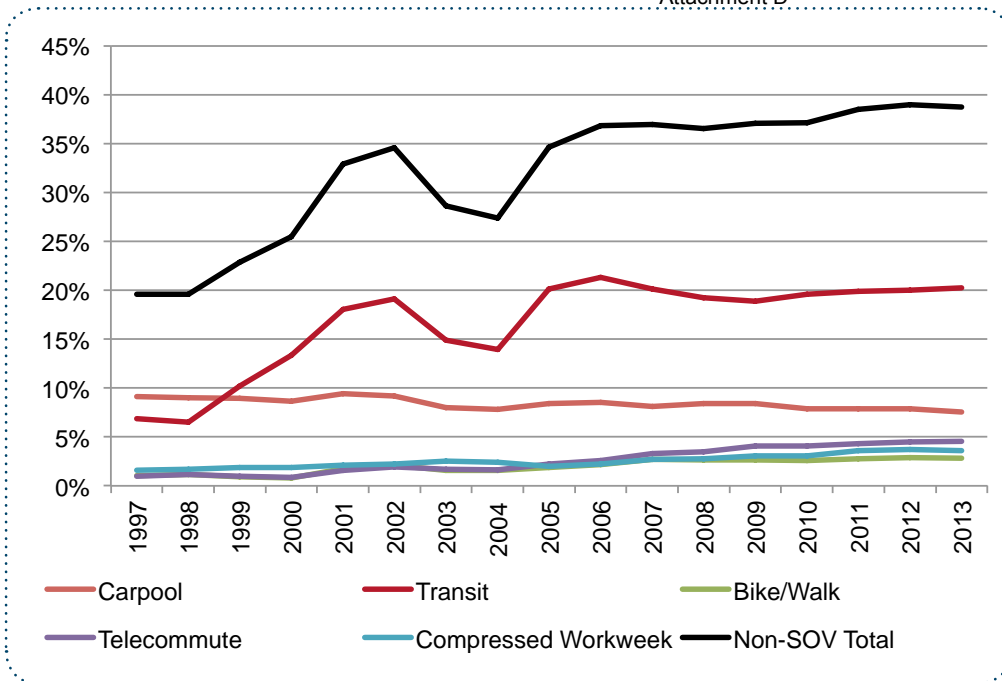
## SCENARIO

**New Plans and Policies**

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

## EFFECTIVENESS OF EMPLOYER COMMUTER PROGRAMS (1997 – 2013)

The TriMet, Wilsonville SMART and TMA employer outreach programs have made significant progress with reducing drive-alone trips. Since 1996, employee commute trips that used non-drive-alone modes (transit, bicycling, walking, carpooling/vanpooling and telecommuting) rose from 20% to over 39% among participating employers.



## EFFECTIVENESS OF COMMUNITY AND NEIGHBORHOOD PROGRAMS

Community outreach programs such as Portland Sunday Parkways and Wilsonville Sunday Streets encourage residents to use travel options by exploring their neighborhoods on foot and bike without motorized traffic. Sunday Parkways events have attracted 400,000 attendees since 2008 and the Wilsonville Sunday Streets event attracted more than 5,000 participants in 2012.

Other examples of valuable community outreach and educational programs include the Community Cycling Center's program to reduce barriers to biking and Metro's Vámonos program, both of which provide communities across the region with the skills and resources to become more active by walking, biking, and using transit for their transportation needs.

In 2004, the City of Portland launched the Interstate TravelSmart individualized marketing project in conjunction with the opening of the MAX Yellow Line. Households that received individualized marketing made nearly twice as many transit trips compared to a similar group of households that did not participate in the marketing campaign. In addition, transit use increased nearly 15 percent during the SmartTrips project along the MAX Green Line in 2010. Follow-up surveys show that household travel behavior is sustained for at least two years after a project has been completed.





*Tailored and personalized marketing campaigns can be more individualized – making them more effective.*

*Success depends on the availability of transit and other options.*

*Work trips are only 30% of all trips – so we need to focus beyond work place campaigns.*

## Emerging themes

- Incentives need to be marketed through employers.
- Travel information needs to be leveraged electronically to take advantage of how many people prefer to access and receive information, such as smart phone apps, the internet and social media.
- Information and marketing campaigns should be culturally relevant, sensitive to different languages and cultures and respond to changing demographics in the region.
- Incentives and investment in end-of-trip facilities are important to encourage greater use of commute options among employees, such as secure bike parking, showers and changing rooms for employees.

## Key takeaways to share with others



## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Make biking and walking more safe and convenient

Active transportation is human-powered travel that engages people in healthy physical activity while they go from place to place. Examples include walking, biking, pushing strollers, using wheelchairs or other mobility devices, skateboarding, and rollerblading. Active transportation is an essential component of public transportation because most of these trips begin and end with walking or biking.

Today, about 50 percent of the regional active transportation network is complete. Nearly 18 percent of all trips in the region are made by walking and biking, a higher share than many other places. Approximately 45 percent of all trips made by car in the region are less than three miles and 15 percent are less than one mile. With a complete active transportation network supported by education and incentives, many of the short trips made by car could be replaced by walking and biking. (See separate summary on providing information and incentives to expand use of travel options.)

For active travel, transitioning between modes is easy when sidewalks and bicycle routes are connected and complete, wayfinding is coordinated, and transit stops are connected by sidewalks and have shelters and places to sit. Biking to work and other places is supported when bicycles are accommodated on transit vehicles, safe and secure bicycle parking is available at transit shelters and community destinations, and adequate room is provided for walkers and bicyclists on shared pathways. Regional trails and transit function better when they are integrated with on-street walking and biking routes.

## BENEFITS

- increases access to jobs and services
- provides low-cost travel options
- supports economic development, local businesses and tourism
- increases physical activity and reduces health care costs
- reduces air pollution and air toxics
- reduces risk of traffic fatalities and injuries

## CHALLENGES

- major gaps exist in walking and biking routes across the region
- gaps in the active transportation network affect safety, convenience and access to transit
- many would like to walk or bike but feel unsafe
- many lack access to walking and biking routes
- limited dedicated funding is declining

# How much of the planned active transportation network should we complete by 2035?

## ACTIVE TRANSPORTATION AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Completion of regional active transportation network</b>	Federally funded planning and capital projects reflecting existing funding are largely dedicated to transit and road investments	Same as Scenario A, plus planned off-street trails and on-street sidewalk and bikeway projects, such as bicycle lanes, cycle tracks, bicycle boulevards, sidewalks and crossing improvements included in financially constrained RTP	Same as Scenario B, plus full build-out of planned off-street trails, on-street sidewalk and bikeway projects, and improvements to existing facilities
<b>Trails</b>	38% completed	79% completed	100% completed
<b>Bikeways</b>	63% completed	84% completed	100% completed
<b>Sidewalks</b>	54% completed	62% completed	100% completed
<b>Estimated cost (2014\$)</b>	<b>\$57 million</b>	<b>\$948 million</b>	<b>\$3.9 billion</b>

### SCENARIO



#### Scenario A

#### RECENT TRENDS

#### Active transportation

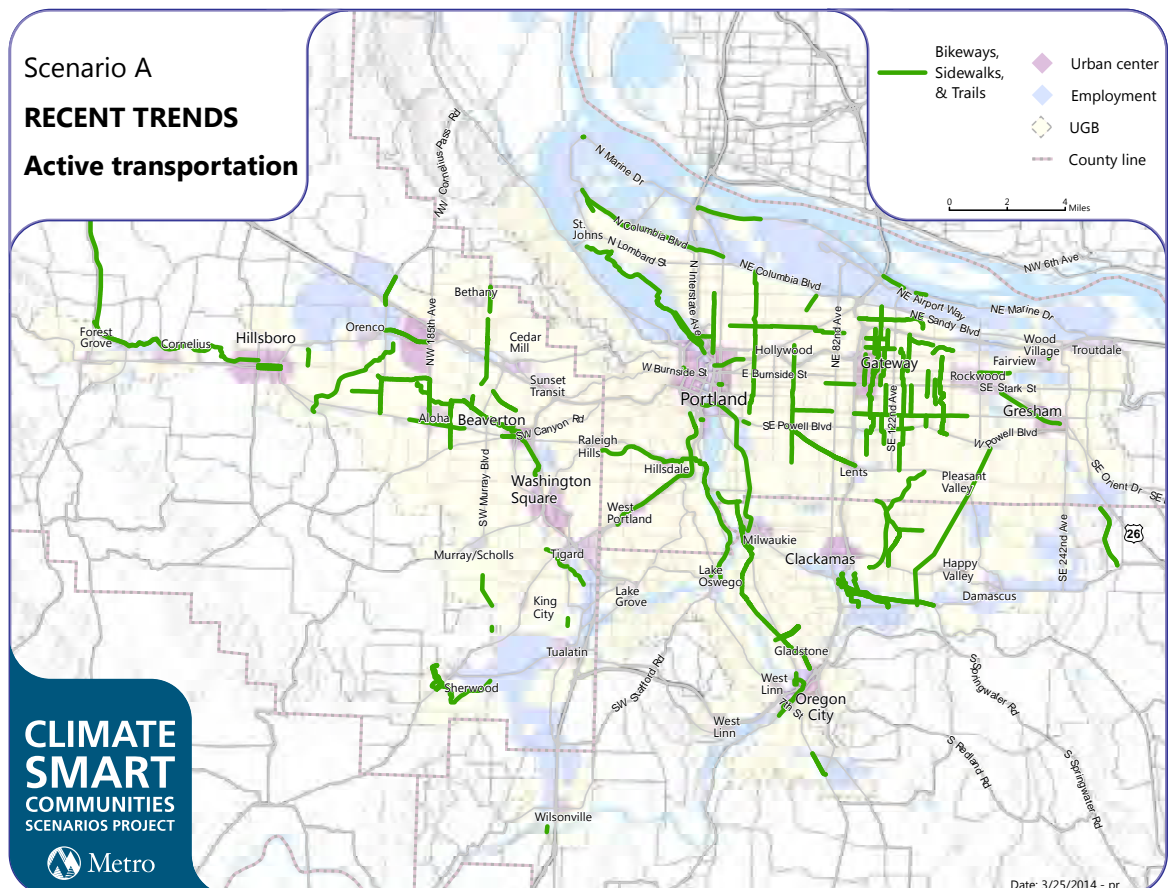
#### Recent Trends

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

#### 58

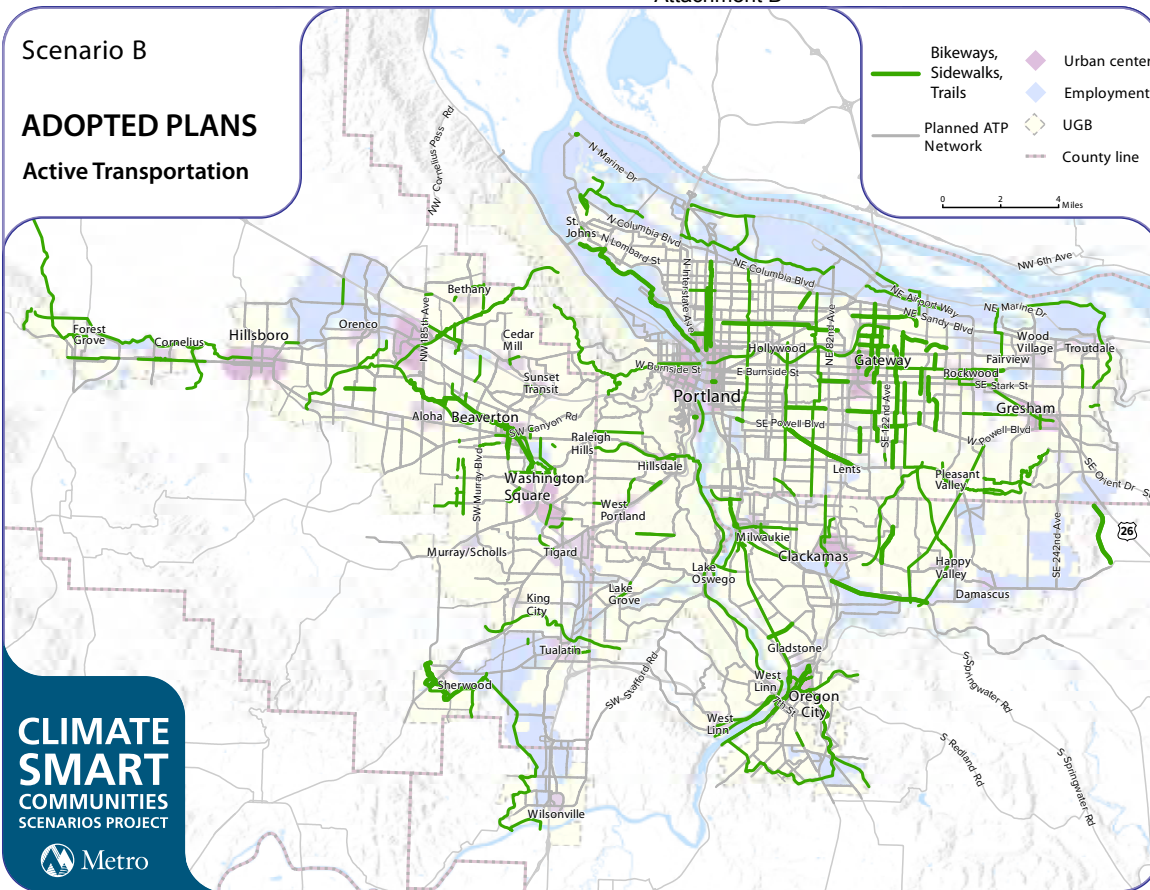
Estimated lives saved annually from increased physical activity by 2035

**Note** These maps are for research purposes only and do not reflect current or future policy decisions of the Metro Council, MPAC or JPACT.





## Scenario B

**ADOPTED PLANS**  
**Active Transportation**

**CLIMATE  
SMART**  
 COMMUNITIES  
 SCENARIOS PROJECT


## SCENARIO

B

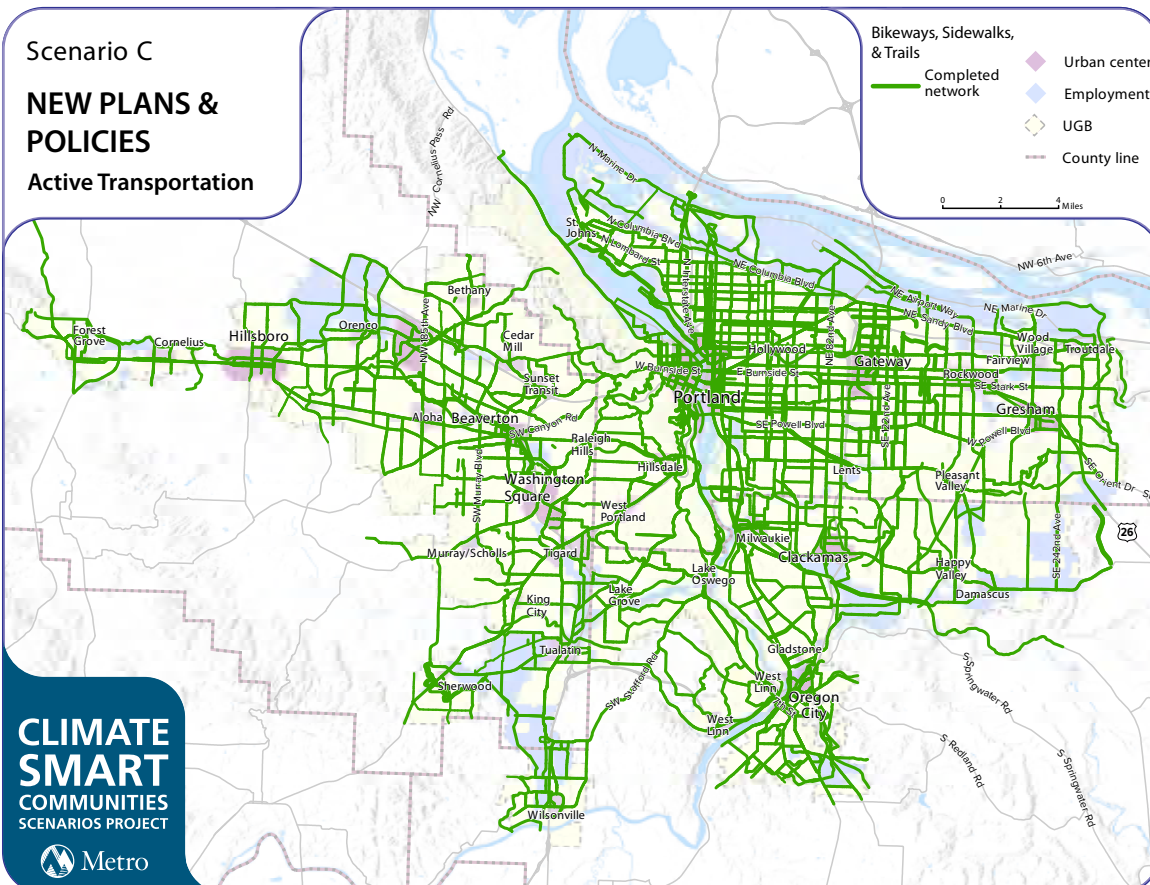
**Adopted Plans**

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

**89**

Estimated lives saved annually from increased physical activity by 2035

## Scenario C

**NEW PLANS &  
POLICIES**  
**Active Transportation**

**CLIMATE  
SMART**  
 COMMUNITIES  
 SCENARIOS PROJECT


## SCENARIO

C

**New Plans and Policies**

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

**116**

Estimated lives saved annually from increased physical activity by 2035

*Bike improvements should be strategic and provide convenient, efficient access to places people want to go.*

*Make the healthy  
choice, the easy choice.*

Create integrated networks  
and complete streets to  
leverage existing funding.

- A high priority for nearly all communities and interest groups because it provides many benefits, particularly improved public health and access.
- Investments should focus on completing gaps and making street crossings more safe.
- More dedicated, separate paths for biking are needed because some people will never feel safe biking in vehicle traffic.
- “Complete streets” should include green designs, such as bioswales and street trees, as part of street design and a broader climate adaptation strategy.
- Demographics are changing – as youth and older adults choose to drive less, it is important to invest more in active transportation options that connect to transit and link neighborhoods to services.
- A dedicated, stable funding source is needed.



## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Make streets and highways more safe, reliable and connected

Today, nearly 45 percent of all trips in the region made by car are less than three miles, and 15 percent are less than one mile. When road networks lack multiple routes serving the same destinations, short trips must use major travel corridors designed for freight and regional traffic, adding to congestion.

There are three key ways to make streets and highways more safe, reliable and connected to serve longer trips across the region on highways, shorter trips on arterial streets, and the shortest trips on local streets.

**Maintenance and efficient operation of the existing road system** Keeping the road system in good repair and using information and technology to manage travel demand and traffic flow help improve safety, and boost efficiency of the existing system. With limited funding, more effort is being made to maximize system operations prior to building new capacity in the region. (See separate summaries describing the use of technology and information.)

**Street connectivity** Building a well-connected network of complete streets including new local and major street connections shortens trips, improves access to community and regional destinations, and helps preserve the capacity and function of highways in the region for freight and longer trips. These connections include designs that support walking and biking, and, in some areas, provide critical freight access between industrial areas, intermodal facilities and the interstate highway system.

**Network expansion** Adding lane miles to relieve congestion is an expensive approach, and will not solve congestion on its own. Targeted widening of streets and highways along with other strategies helps connect goods to market and support travel across the region.

### BENEFITS

- improves access to jobs, goods and services, boosting business revenue
- creates jobs and stimulates development, boosting the economy
- reduces delay, saving businesses time and money
- reduces risk of traffic fatalities and injuries
- reduces emergency response time

### CHALLENGES

- declining purchasing power of existing funding sources, growing maintenance backlog, and rising construction costs
- may induce more traffic
- potential community impacts, such as displacement and noise
- concentration of air pollutants and air toxics in major travel corridors



# How much of the planned street and highway network should we complete by 2035?

## STREET AND HIGHWAYS AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Arterials and freeways</b>	Maintain the existing system and complete committed projects	Same as Scenario A, plus complete financially constrained RTP projects such as <ul style="list-style-type: none"> <li>planned connections to further build out the regional street grid and improve access to industrial areas and freight facilities</li> <li>widening some major streets and freeways to address bottlenecks</li> </ul>	Same as Scenario B, plus additional projects in the RTP  On-going regional traffic operations center monitoring and incident response patrols are deployed on area freeways and major arterials adjacent to freeways
<b>Maintenance</b>	Some maintenance backlogs grow	Fully meet maintenance and preservation needs	Same as Scenario B
<b>Estimated capital cost (2014\$)</b>	<b>\$162 million</b>	<b>\$8.8 billion</b>	<b>\$11.8 billion</b>

### SCENARIO



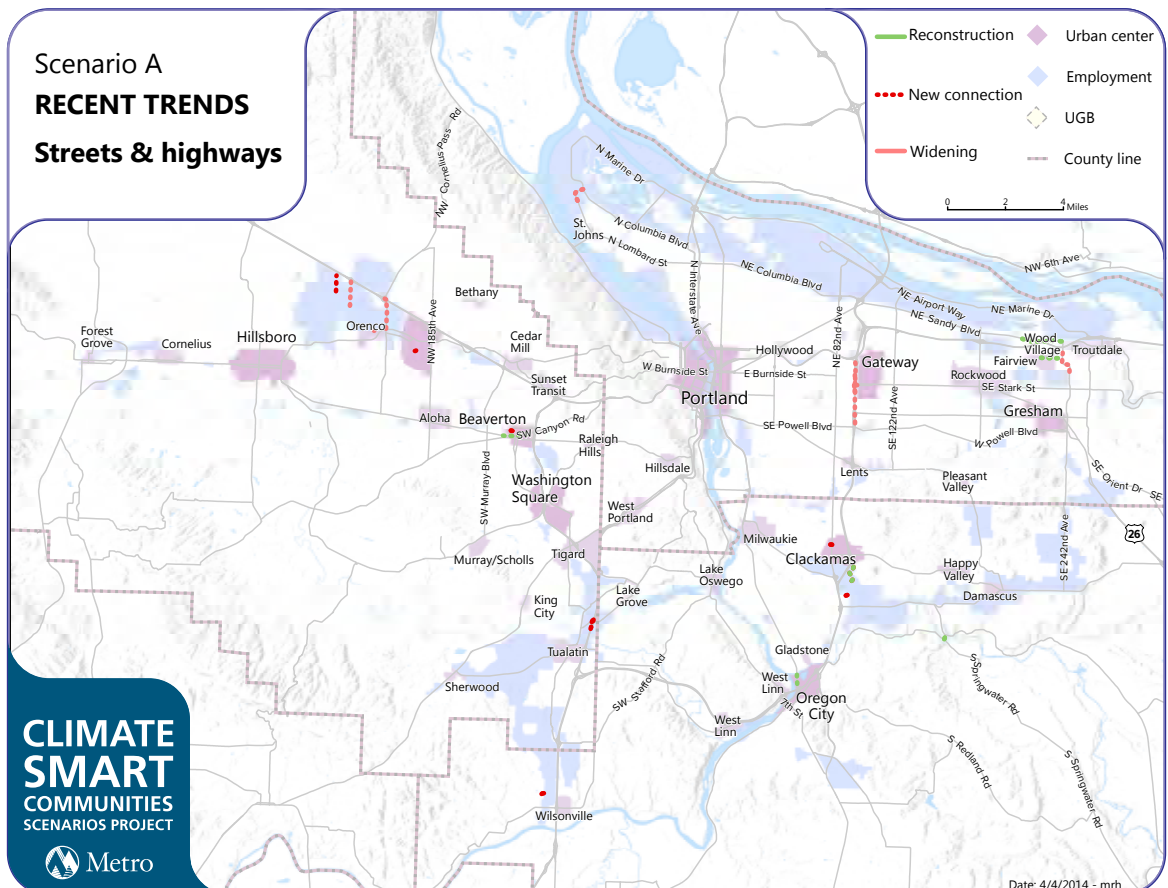
#### Recent Trends

This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

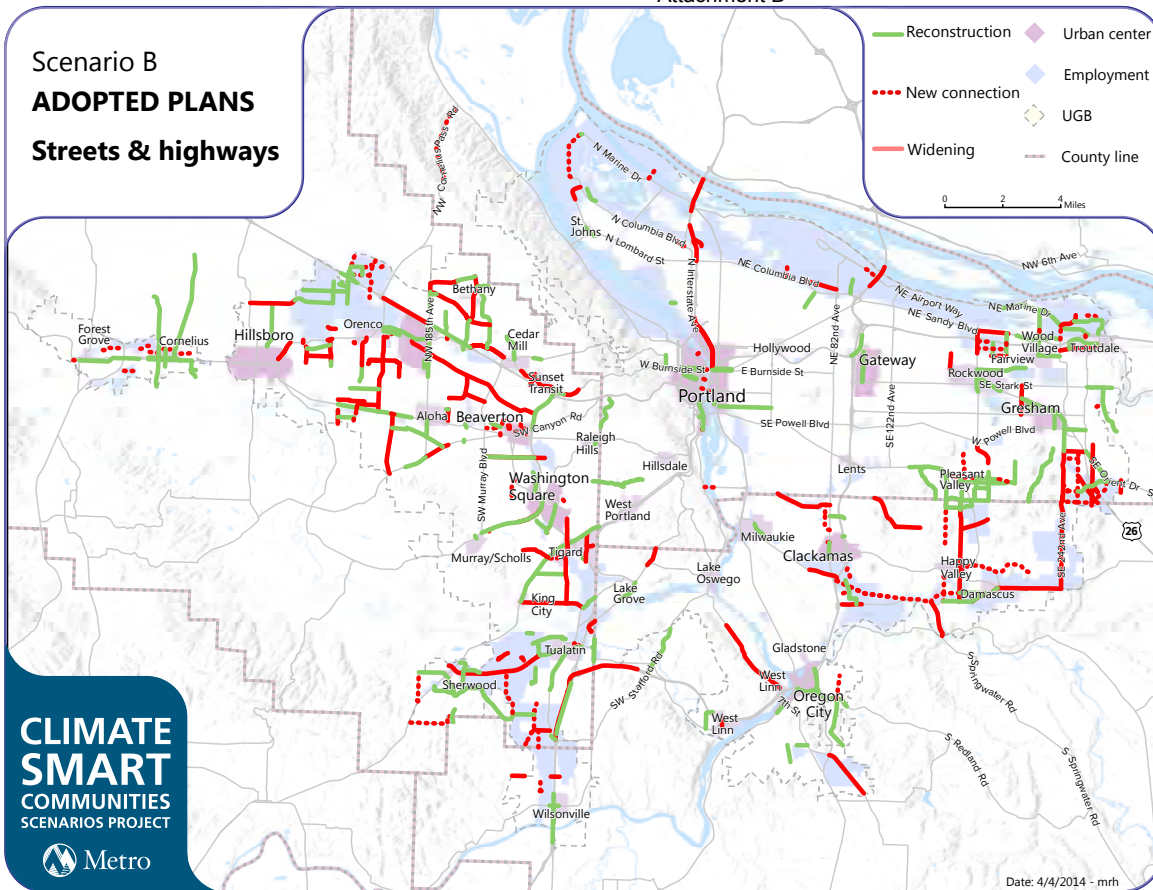
**9**

Lane miles added by 2035

**Note** These maps are for research purposes only and do not reflect current or future policy decisions of the Metro Council, MPAC or JPACT.



## Scenario B ADOPTED PLANS Streets & highways



**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**

Metro

## SCENARIO

# B

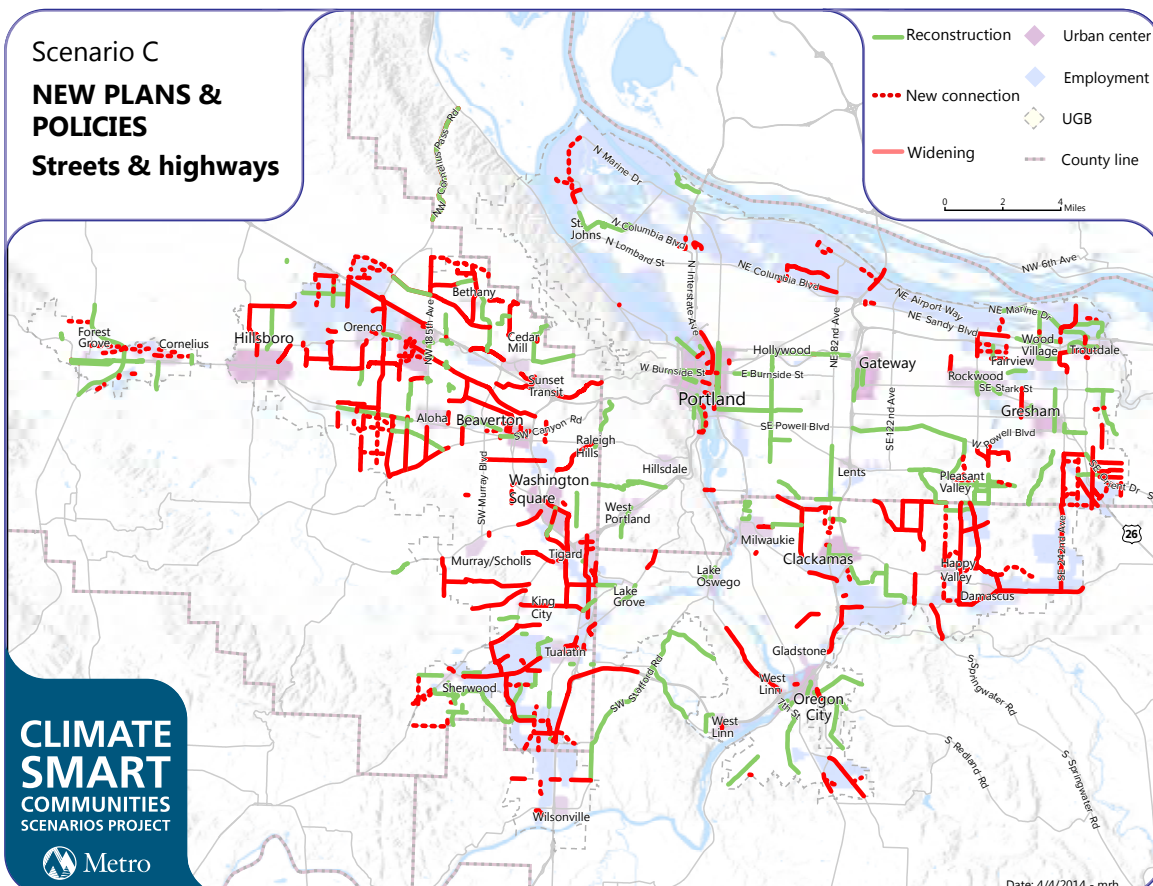
### Adopted Plans

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

**81**

Lane miles added by 2035

## Scenario C NEW PLANS & POLICIES Streets & highways



**CLIMATE  
SMART  
COMMUNITIES  
SCENARIOS PROJECT**

Metro

## SCENARIO

# C

### New Plans and Policies

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

**105**

Lane miles added by 2035

*Street and highway improvements are needed to help move freight more efficiently to make the region more economically competitive.*

Investments in transit, walking and biking can help freight move more efficiently because they help reduce the need to drive for some trips.

- Keeping existing roads and highways in good condition is a higher priority than adding capacity or building new roads.
- Improved connectivity is a priority for suburban communities.
- Build a well-connected network of complete streets that prioritize safe and convenient pedestrian and bicycle access; respecting existing communities and the natural environment.
- Maximize system operations by implementing management strategies prior to building new motor vehicle capacity, where appropriate.

## Key takeaways to share with others





## RELATIVE CLIMATE BENEFIT



## RELATIVE COST



# Manage parking to make efficient use of parking resources

Parking management refers to various policies and programs that result in more efficient use of parking resources. Parking management is implemented through city and county development codes. Managing parking works best when used in a complementary fashion with other strategies; it is less effective in areas where transit or bicycle and pedestrian infrastructure is lacking.

**Planning approaches** include conducting assessments of the parking supply to better understand needs. A typical urban parking space has an annualized cost of \$600 to \$1,200 to maintain, while structured parking construction costs averages \$15,000 per space.

**On-street parking approaches** include spaces that are timed, metered, designated for certain uses or have no restriction. Examples of these different approaches include charging long-term or short-term fees, limiting the length of time a vehicle can park, and designating on-street spaces for preferential parking for electric vehicles, carshare vehicles, carpools, vanpools, bikes, public use (events or café “Street Seats”) and freight truck loading/unloading areas.

**Off-street parking approaches** include providing spaces in designated areas, unbundling parking, preferential parking (for vehicles listed above), shared parking between land uses (for example, movie theater and business center), park-and-ride lots for transit and carpools/vanpools, and parking garages in downtowns and other mixed-use areas that allow surface lots to be developed for other uses.

## BENEFITS

- allows more land to be available for development, generating local and state revenue
- reduces costs to governments, businesses, developers and consumers
- fosters public-private partnerships that can result in improved streetscape for retail and visitors
- generates revenues where parking is priced
- reduces air pollution and air toxics

## CHALLENGES

- inadequate information for motorists on parking and availability
- inefficient use of existing parking resources
- parking spaces that are inconvenient to nearby residents and businesses
- scarce freight loading and unloading areas
- low parking turnover rate
- lack of sufficient parking
- parking oversupply, ongoing costs and the need to free up parking for customers

# How should local communities manage parking by 2035?

## PARKING MANAGEMENT AT A GLANCE

	SCENARIO <b>A</b>	SCENARIO <b>B</b>	SCENARIO <b>C</b>
<b>Parking management</b>	<p>Existing locally-adopted development codes remain the same as 2010</p> <p>Large employers offer preferential parking</p> <p>Free parking is available in most areas</p>	<p>Same as Scenario A, plus communities expand the flexibility of development codes and develop parking plans for all downtown and centers served by high capacity transit as assumed in adopted RTP</p> <p>Parking facilities are sized and managed so spaces are frequently occupied, travelers have information on parking and travel options, and some businesses share parking</p> <p>Free and timed parking is available in many areas</p>	<p>Same as Scenario B, plus communities expand the flexibility of development codes to support public-private partnerships in areas served by 10-minute transit service</p> <p>Medium-size employers offer preferential parking</p> <p>Local codes allow for unbundled parking</p> <p>Free and timed parking is available in some areas</p>

### SCENARIO



#### Scenario A

#### RECENT TRENDS Managing parking

#### Recent Trends

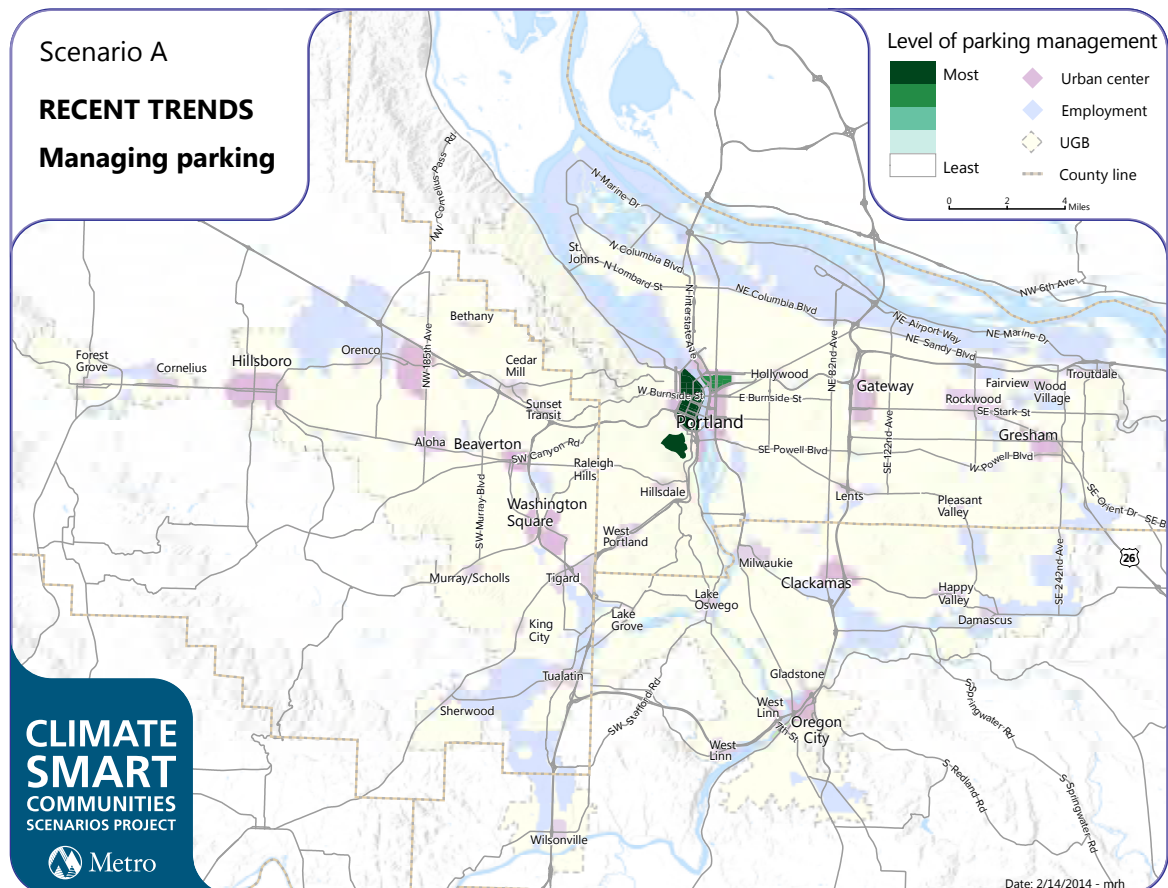
This scenario shows the results of implementing adopted land use and transportation plans to the extent possible with existing revenue.

**13% work trips**

**8% other trips**

Estimated share of trips to areas with actively managed parking

**Note** These maps are for research purposes only and do not reflect current or future policy decisions of the Metro Council, MPAC or JPACT.



**SCENARIO****B****Adopted Plans**

This scenario shows the results of successfully implementing adopted plans and achieving the current Regional Transportation Plan, which relies on increased revenue.

**30% work trips****30% other trips**

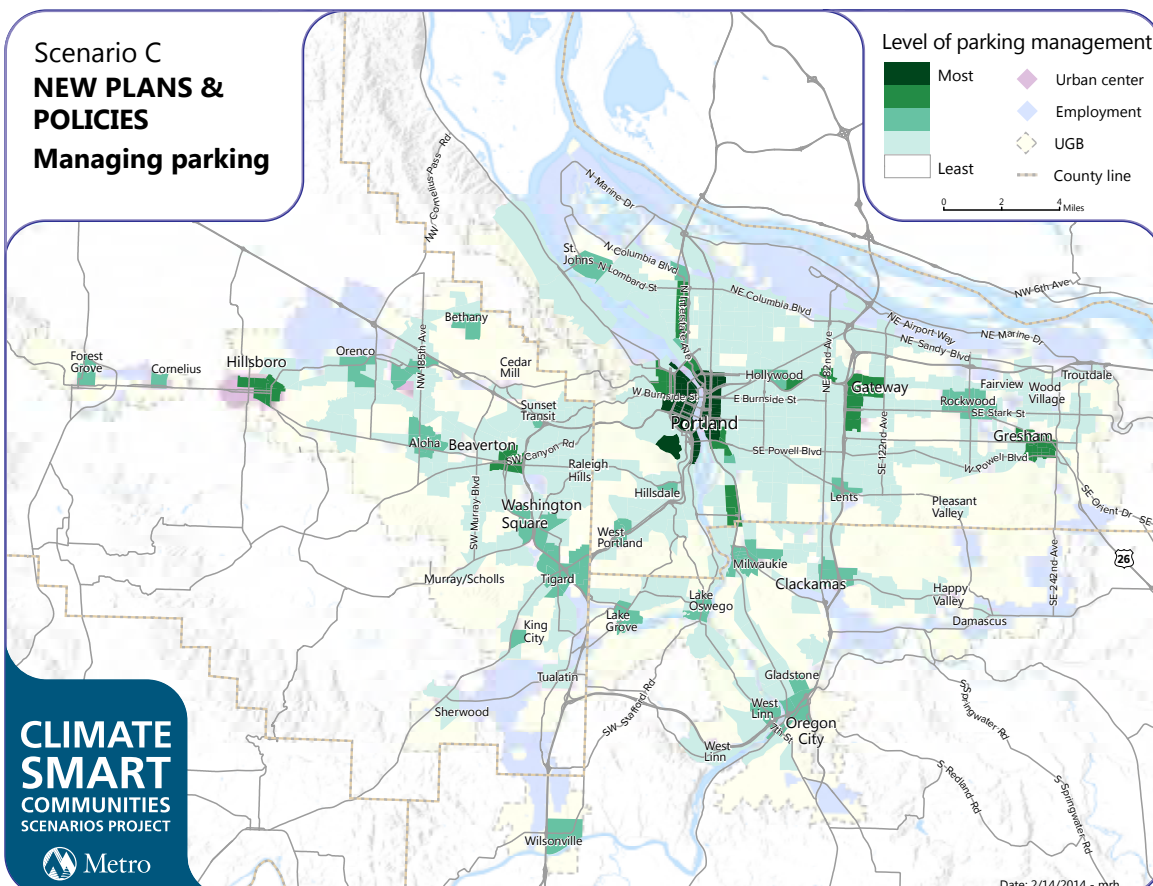
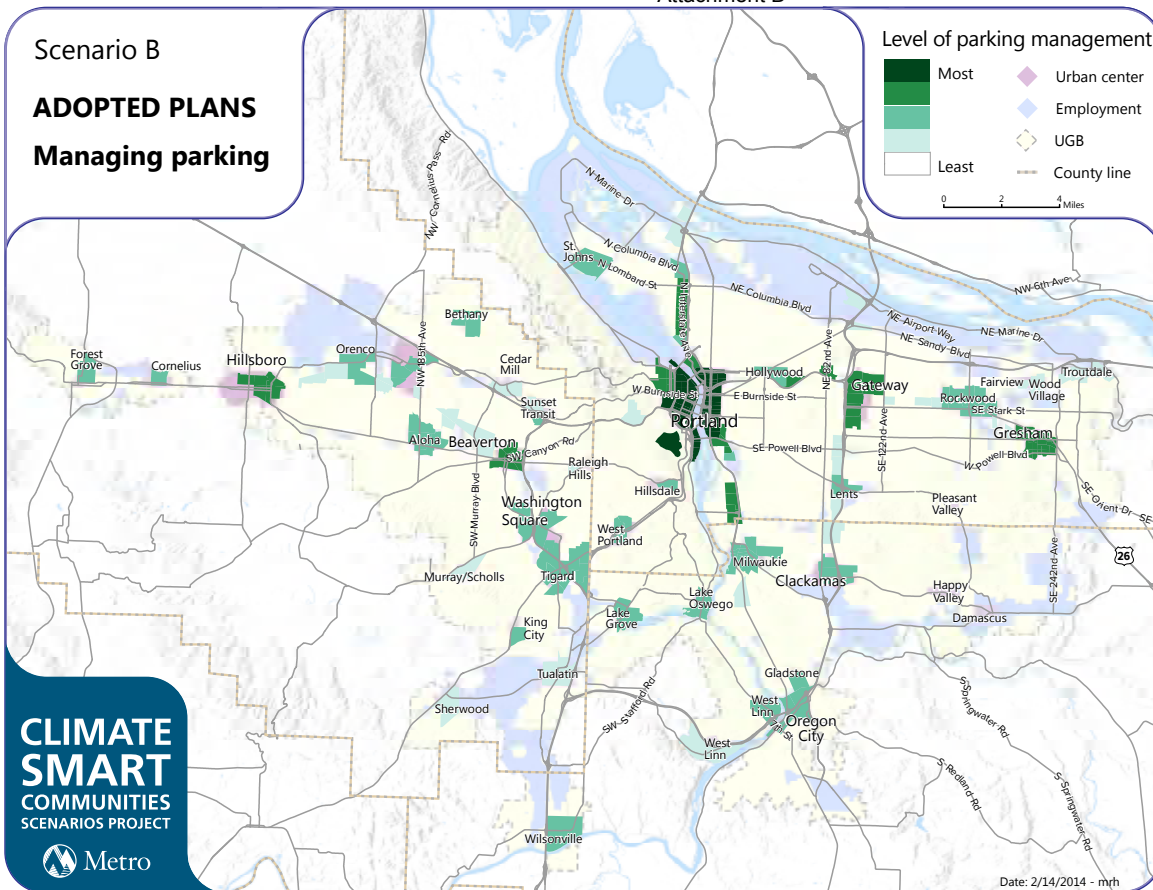
Estimated share of trips to areas with actively managed parking

**SCENARIO****C****New Plans and Policies**

This scenario shows the results of pursuing new policies, more investment and new revenue sources to more fully achieve adopted and emerging plans.

**50% work trips****50% other trips**

Estimated share of trips to areas with actively managed parking





*“Free parking” is never free – it’s just a question of how it is being subsidized and by whom.*

*Parking fees can have a disproportionate impact on drivers with limited incomes.*

*Businesses need to be part of the parking conversation.*

- Parking management is the most controversial and lowest priority for most interest groups and residents.
- Many people agree that parking management solutions should be flexible and tailored by each community to fit local needs.
- Parking management needs to begin with data about what the needs are, what might work, and available travel options in the area.
- Implementation of parking management may require broadening how parking problems and solutions are addressed and activities to improve enforcement and addressing potential spillover impacts.
- If paid parking is implemented, there needs to be a corresponding investment in transit and other travel options so that people have choices.

## Key takeaways to share with others



## RELATIVE CLIMATE BENEFIT

N/A

## RELATIVE COST

N/A

# Identify potential ways to pay for our investment choices

Transportation funding has long been primarily a federal and state responsibility, financed largely through gas taxes and other user fees. However, the purchasing power of federal and state gas tax revenues is declining as individuals drive less and fuel efficiency increases. The effectiveness of this revenue source is further eroded as the gas tax is not indexed to inflation.

Diminished resources mean reduced ability to expand, improve and maintain existing transportation infrastructure. Federal and state funding is not keeping pace with infrastructure operation and maintenance needs, so a substantial share of funding for future RTP investments has shifted to local revenue sources.

Local governments in Oregon have increasingly turned to tax levies, road maintenance fees, system development charges and traffic impact fees in attempt to keep pace, although some communities have been more successful than others. Expansion and operation of the transit system has relied heavily on payroll taxes and competitive federal funding for high capacity transit capital projects. But the region's demand for frequent and reliable transit service exceeds the capacity of the payroll tax to support it.

The adopted Regional Transportation Plan calls for stabilizing existing transportation revenue sources while securing new and innovative long-term sources of funding adequate to build, operate and maintain the regional transportation system for all modes of travel.

## BENEFITS




- transforms community visions into reality
- improves access to jobs, goods and services, boosting business revenues
- creates jobs and stimulates development, boosting the regional economy
- reduces delay, saving businesses time and money
- reduces air pollution and air toxics
- reduces risk of traffic fatalities and injuries

## CHALLENGES

- declining purchasing power of existing funding sources due to inflation and improvement in fuel efficiency
- potential disproportionate impact of higher taxes and fees on drivers with limited travel options
- limited public support for higher fees and taxes
- patchwork of funding sources
- statutory or constitutional limitations on how different funding sources can be raised or used

# How should we pay for our investment choices by 2035?

## FUNDING MECHANISMS AT A GLANCE

	<b>SCENARIO</b>  <b>Recent Trends</b>	<b>SCENARIO</b>  <b>Adopted Plans</b>	<b>SCENARIO</b>  <b>New Plans and Policies</b>
<b>Overview of revenue sources</b>	Revenues from existing sources at 2012 levels	Same as Scenario A, plus additional federal, state and local revenues as assumed in the financially constrained RTP	Same as Scenario B, plus additional federal, state and local revenues assumed in the full RTP, plus new user-based fees
<b>Gas tax</b>	<p>Federal and state gas taxes are 18 cents and 30 cents per gallon, respectively</p> <p>Multnomah and Washington counties levy a per gallon gas tax and share revenue with the cities within their boundaries<sup>1</sup></p> <p>Four cities – Tigard, Milwaukie, Happy Valley and Cornelius – implement a gas tax that is predominately used for maintenance<sup>1</sup></p>	Same as Scenario A, plus the state gas tax increases by \$0.01 per year to cover growing operations, maintenance and preservation (OMP) costs at the state, regional and local level	Same as Scenario A, but state gas tax is replaced by a fee based on miles driven
<b>Mileage-based road use fee</b>	None	None	\$0.03 per mile (the equivalent of the Scenario B state gas tax assumption)
<b>Carbon fee</b>	None	None	\$50 per ton
<b>Potential revenues generated (2014\$) from gas tax, road use fee and carbon fee</b>	\$5.6 billion	\$6.5 billion	\$15.2 billion
<b>Other potential revenues from RTP sources (capital only)</b>	Existing federal, state and local revenues at 2012 levels	\$15 billion  Scenario A, plus additional federal, state and local revenues at financially constrained RTP levels	\$22 billion  Scenario B, plus additional federal, state and local revenues at full RTP levels

<sup>1</sup>Not accounted for in potential revenues generated, but included in the Regional Transportation Plan financial assumptions for local road-related operations, maintenance and preservation.

# FUNDING MECHANISMS ASSUMED IN 2014 REGIONAL TRANSPORTATION PLAN AND POTENTIAL NEW FUNDING MECHANISMS FOR CONSIDERATION

EXISTING FUNDING MECHANISM	SOURCE		
	Federal	State	Local
Federal Highway Trust Fund <sup>1</sup>	●		
Federal Transit Fund	●		
Gas tax	●	●	●
Vehicle fees (e.g. registration, licensing fees)		●	●
Heavy truck weight-mile fee		●	
Local portion of State Highway Trust Fund <sup>2</sup>			●
Development-based fees <sup>3</sup>			●
Payroll tax			●
Transit passenger fares			●
Special funds and levies <sup>4</sup>			●
Tolls (I-5 Columbia River Crossing)		●	
<b>POTENTIAL NEW FUNDING MECHANISM</b>			
Carbon fee	●	●	
Mileage-based road user fee	●	●	

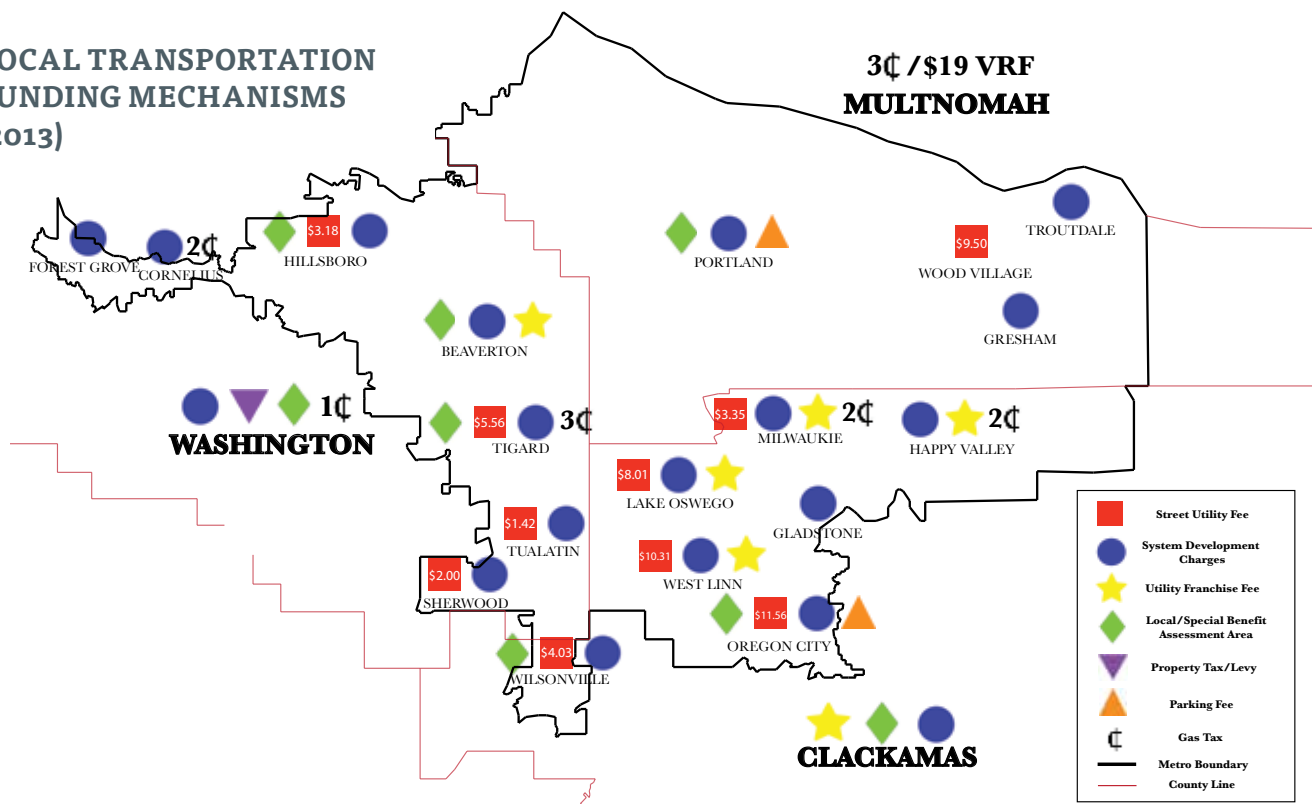
<sup>1</sup>The Federal Highway Trust Fund includes federal gas tax receipts and other revenue.

<sup>2</sup>The State Highway Trust Fund includes state gas tax receipts, vehicle fees and heavy truck weight-mile fees.

<sup>3</sup>Development-based fees include system development charges, traffic impact fees, urban renewal districts and developer contributions.

<sup>4</sup>Special funds and levies include tax levies (e.g. Washington County MSTIP), local improvement districts, vehicle parking fees, transportation utility fees and maintenance districts (e.g. Washington County Urban Road Maintenance District).

## LOCAL TRANSPORTATION FUNDING MECHANISMS (2013)



*We should focus investments on how we want people to travel in 50 years.*

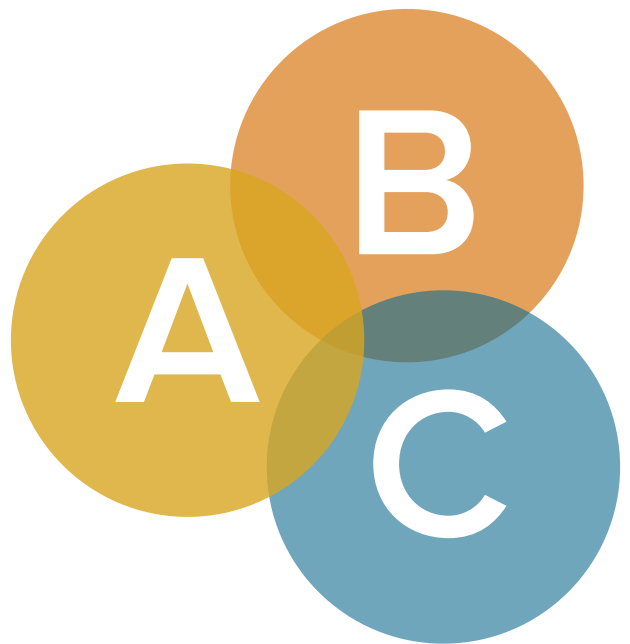
- User-based funding mechanisms had more support so the fees are directly connected to the service received.
- Prioritize limited funding on investments that achieve multiple goals.
- More state funding is needed to leverage local and regional funding.
- Implementation of fees should take into account the ability of people with limited incomes to pay and the other options available.
- More funding should be dedicated to low carbon travel options; current statutes limit how some funding sources can be used.

## Key takeaways to share with others



# SUPPLEMENTAL INFORMATION

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## PHASE 2: SELECTED RESULTS AT A GLANCE

The scenarios tested are for research purposes only and do not necessarily reflect current or future policy decisions of the Metro Council, MPAC or JPACT.

### WHAT WE LEARNED ABOUT TRAVEL AND MOBILITY



#### DAILY VEHICLE MILES TRAVELED

PER PERSON



#### TIME SPENT IN TRAFFIC

% OF LIGHT VEHICLE TRAVEL TIME SPENT IN TRAFFIC



#### Discussion points:

- Adopted plans help reduce how far people drive and time spent in traffic.
- Adopted plans provide opportunities for more people living and working in centers and corridors; a more connected road system; using technology such as traffic signal timing; clearing incidents more quickly; more transit and walking and biking all help the transportation system operate more efficiently which in turn helps save time spent in traffic.
- Adopted plans reduce the amount of time spent in traffic by 20 percent over recent trends.
- Reduced delay is expected to support goods movement, job creation and the region's economy.

**Discussion points:**

- All scenarios improve health outcomes by improving air quality and increasing physical activity.
- Improving air quality and increasing the number of people who regularly exercise by choosing to bike and walk to community destinations can reduce chronic diseases and premature deaths, and lower health care costs.
- Adopted plans increase the level of physical activity over recent trends, saving nearly 90 lives annually by 2035.
- Adopted plans reduce air pollutants by at least 10 metric tons per day over recent trends; an important health benefit of greenhouse gas reduction.
- Reductions in per capita vehicle miles traveled improve traffic safety in all scenarios.
- Further investment can significantly improve these outcomes.

## WHAT WE LEARNED ABOUT PUBLIC HEALTH AND SAFETY



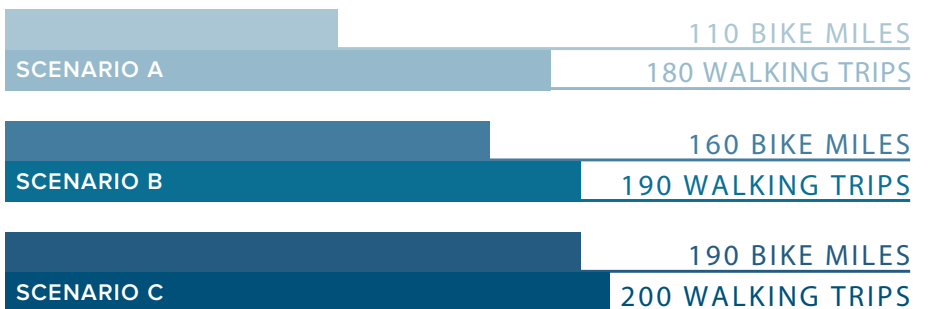
### AIR POLLUTANTS

METRIC TONS PER DAY



### PHYSICAL ACTIVITY IMPROVES HEALTH

PER PERSON PER YEAR



### LESS AIR POLLUTION, MORE PHYSICAL ACTIVITY & IMPROVED SAFETY HELP SAVE LIVES

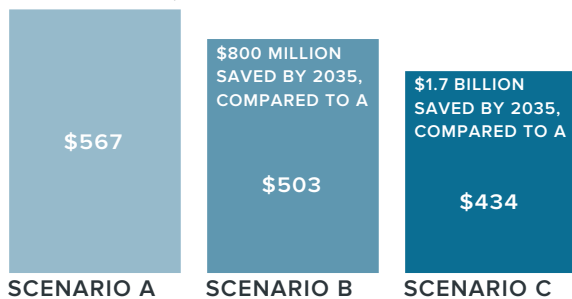
LIVES SAVED EACH YEAR BY 2035



## WHAT WE LEARNED ABOUT THE ECONOMY

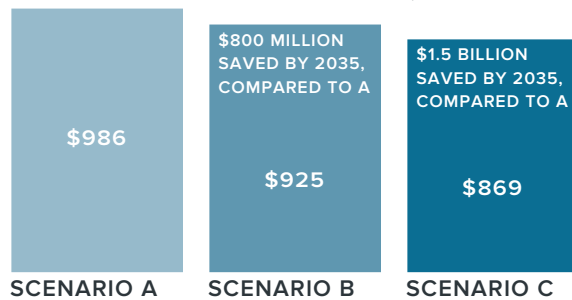
### **\$ OUR ECONOMY BENEFITS FROM REDUCED EMISSIONS**

ANNUAL ENVIRONMENTAL COSTS IN 2035  
(MILLIONS, 2005\$)



### **\$ BUSINESSES AND OUR ECONOMY BENEFIT FROM REDUCED DELAY**

ANNUAL FREIGHT TRUCK COSTS DUE TO  
DELAY IN 2035 (MILLIONS, 2005\$)



#### Discussion points:

- Adopted plans reduce the environmental costs associated with air pollution, vehicle fluids and severe storms, and flooding and drought expected from climate change.
- Adopted plans reduce the amount of time freight trucks spend in traffic over recent trends.
- Freight truck travel cost savings can be passed on to businesses and consumers.
- Further investment can increase these savings from reduced emissions and delay.



**Discussion points:**

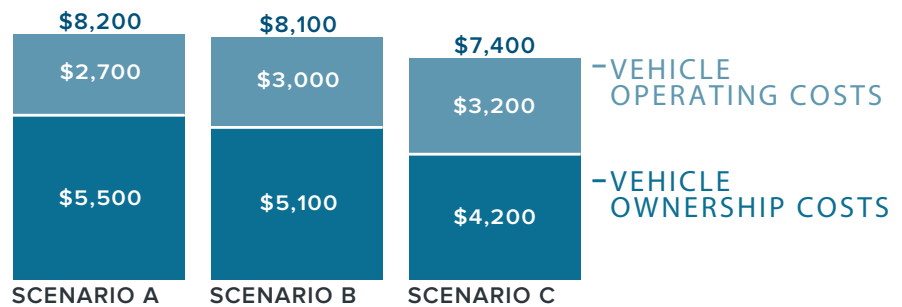
- Adopted plans can reduce the average annual vehicle ownership and operating costs over recent trends.
- Vehicle ownership costs decrease as households drive less and own fewer vehicles.
- Scenario C results in the lowest vehicle costs, which helps reduce the share of household income spent on vehicle travel for all households, including households with limited incomes.

## WHAT WE LEARNED ABOUT HOUSEHOLD COSTS



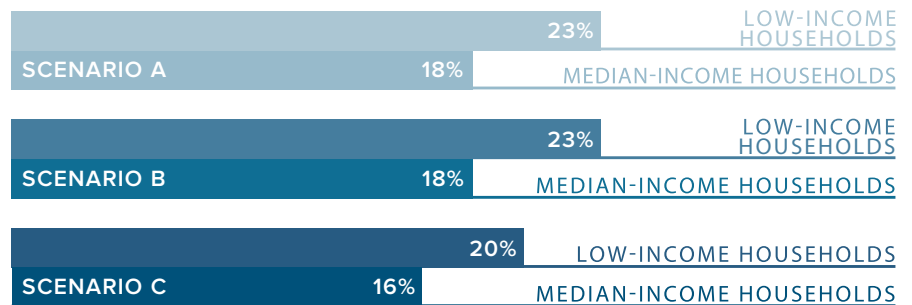
### OVERALL VEHICLE-RELATED TRAVEL COSTS DECREASE DUE TO LOWER OWNERSHIP COSTS

AVERAGE ANNUAL HOUSEHOLD VEHICLE OWNERSHIP & OPERATING COSTS



### LOWER VEHICLE COSTS HELP HOUSEHOLD BUDGETS

SHARE OF ANNUAL HOUSEHOLD INCOME SPENT ON VEHICLE TRAVEL



# PHASE 2: TRANSIT ACCESS AT A GLANCE

## HOUSEHOLD ACCESS TO TRANSIT AT A GLANCE

Share of total households within ¼-mile of transit

SERVICE FREQUENCY	SCENARIO A		SCENARIO B		SCENARIO C	
	Rush hour	Daytime & evening	Rush hour	Daytime & evening	Rush hour	Daytime & evening
Every 10 minutes	24%	4%	27%	4%	32%	20%
11 – 15 minute service	20%	29%	21%	32%	17%	18%
16 – 25 minute service	9%	5%	8%	4%	9%	7%
More than 26 minute service	18%	28%	17%	28%	16%	26%
No fixed-route service	29%	34%	27%	32%	26%	29%

## LOW-INCOME HOUSEHOLD ACCESS TO TRANSIT AT A GLANCE

Share of low-income households\* within ¼-mile of transit

SERVICE FREQUENCY	SCENARIO A		SCENARIO B		SCENARIO C	
	Rush hour	Daytime & evening	Rush hour	Daytime & evening	Rush hour	Daytime & evening
Every 10 minutes	31%	5%	34%	5%	40%	26%
11 – 15 minute service	26%	39%	26%	42%	22%	23%
16 – 25 minute service	8%	6%	7%	5%	7%	7%
More than 26 minute service	16%	28%	15%	27%	14%	24%
No fixed-route service	19%	22%	18%	21%	17%	20%

\* \$24,999 per year or less

## JOB ACCESS TO TRANSIT AT A GLANCE

Share of jobs within ¼-mile of transit

SERVICE FREQUENCY	SCENARIO A		SCENARIO B		SCENARIO C	
	Rush hour	Daytime & evening	Rush hour	Daytime & evening	Rush hour	Daytime & evening
Every 10 minutes	31%	6%	33%	6%	42%	23%
11 – 15 minute service	19%	35%	22%	38%	17%	25%
16 – 25 minute service	12%	4%	9%	3%	9%	7%
More than 26 minute service	22%	33%	20%	32%	17%	26%
No fixed-route service	16%	22%	16%	21%	15%	19%

## PHASE 2: ASSUMPTIONS AT A GLANCE

March 30, 2014

### Phase 2: 2010 base year and alternative scenario inputs

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

		2010	2035		
		Base Year Reflects existing conditions	Scenario A Recent trends	Scenario B Adopted plans	Scenario C New plans and policies
<b>Strategy</b>					
Community design	Households in mixed use areas (percent)	26%	36%	37%	37%
	Urban growth boundary expansion (acres)	2010 UGB	28,000 acres	12,000 acres	12,000 acres
	Drive alone trips under 10 miles that shift to bike (percent)	9%	10%	15%	20%
	Transit service (daily revenue hours)	4,900	5,600	6,200 (RTP Financially Constrained)	11,200 (RTP State + more transit)
	Work/non-work trips in areas with parking management (percent)	13% / 8%	13% / 8%	30% / 30%	50% / 50%
Pricing	Pay-as-you-drive insurance (percent of households participating)	0%	20%	40%	100%
	Gas tax (cost per gallon 2005\$)	\$0.42	\$0.48	\$0.73	\$0.18
	Road user fee (cost per mile)	\$0	\$0	\$0	\$0.03
	Carbon emissions fee (cost per ton)	\$0	\$0	\$0	\$50

March 30, 2014

The inputs are for research purposes only and do not represent current or future policy decisions of the Metro Council.

**Strategy**

		<b>2010</b>	<b>2035</b>		
		<b>Base Year</b> Reflects existing conditions	<b>Scenario A</b> Recent trends	<b>Scenario B</b> Adopted plans	<b>Scenario C</b> New plans and policies
Marketing and incentives	Households participating in eco-driving (percent)	0%	0%	30%	60%
	Households participating in individualized marketing programs (percent)	9%	30%	30%	60%
	Workers participating in employer-based commuter programs (percent)	20%	20%	20%	40%
	Carsharing in high density areas (participation rate)	One carshare per 5000 vehicles	Twice the number of carshare vehicles available	Same as Scenario A	Four times the number of carshare vehicles available
	Carsharing in medium density areas (participation rate)	One carshare per 5000 vehicles	Same as today	Twice the number of carshare vehicles	Same as Scenario B
Roads	Freeway and arterial expansion (lane miles added)	N/A	9 miles	81 miles (RTP Financially Constrained)	105 miles (RTP State)
	Delay reduced by traffic management strategies (percent)	10%	10%	20%	35%
Fleet	Fleet mix (percent)	auto: 57% light truck: 43%	auto: 71% light truck: 29%		
	Fleet turnover rate	10 years	8 years		
Technology	Fuel economy (miles per gallon)	auto: 29.2 mpg light truck: 20.9 mpg	auto: 68.5 mpg light truck: 47.7 mpg		
	Carbon intensity of fuels	90 g CO <sub>2</sub> e/megajoule	72 g CO <sub>2</sub> e/megajoule		
	Plug-in hybrid electric/all electric vehicles (percent)	auto: 0% / 1% light truck: 0% / 1%	auto: 8% / 26% light truck: 2% / 26%		

## GLOSSARY

**Carsharing** A model similar to a car rental where a member user rents cars for short periods of time, often by the hour. Such programs are attractive to customers who make only occasional use of a vehicle, as well as others who would like occasional access to a vehicle of a different type than they use day-to-day. The organization renting the cars may be a commercial business or the users may be organized as a company, public agency, cooperative, or peer-to-peer. Zipcar and car2go are local examples.

**Eco-driving** A combination of public education, in-vehicle technology and driving practices that result in more efficient vehicle operation and reduced fuel consumption and emissions. Examples of eco-driving practices include avoiding rapid starts and stops, matching driving speeds to synchronized traffic signals, and avoiding idling. Program are targeted to those without travel options and traveling longer distances.

**Employer-based commute programs** Work-based travel demand management programs that can include transportation coordinators, employer-subsidized transit pass programs, ride-matching, carpool and vanpool programs, telecommuting, compressed or flexible work weeks and bicycle parking and showers for bicycle commuters.

**Fleet mix** The percentage of vehicles classified as automobiles compared to the percentage classified as light trucks (weighing less than 10,000 lbs.); light trucks make up 43 percent of the light-duty fleet today.

**Fleet turnover** The rate of vehicle replacement or the turnover of older vehicles to newer vehicles; the current turnover rate in Oregon is 10 years.

**Greenhouse gas emissions** According to the Environmental Protection Agency, gases that trap heat in the atmosphere are called greenhouse gases emissions. Greenhouse gases that are created and emitted through human activities include carbon dioxide (emitted through the burning of fossil fuels), methane, nitrous oxide and fluorinated gases. For more information see [www.epa.gov/climatechange](http://www.epa.gov/climatechange).

**GreenSTEP** GreenSTEP is a new model developed to estimate GHG emissions at the individual household level. It estimates greenhouse gas emissions associated with vehicle ownership, vehicle travel, and fuel consumption, and is designed to operate in a way that allows it to show the potential effects of different policies and other factors on vehicle travel and emissions. Metropolitan GreenSTEP travel behavior estimates are made irrespective of housing choice or supply; the model only considers the demand forecast components – household size, income and age – and the policy areas considered in this analysis.



**House Bill 2001 (Oregon Jobs and Transportation Act)** Passed by the Legislature in 2009, this legislation provided specific directions to the Portland metropolitan area to undertake scenario planning and develop two or more land use and transportation scenarios by 2012 that accommodate planned population and employment growth while achieving the GHG emissions reduction targets approved by LCDC in May 2011. Metro, after public review and consultation with local governments, is to adopt a preferred scenario. Following adoption of a preferred scenario, the local governments within the Metro jurisdiction are to amend their comprehensive plans and land use regulations as necessary to be consistent with the preferred scenario. For more information go to: [http://www.oregonlegislature.gov/bills\\_laws/lawsstatutes/2009orLaw0865.html](http://www.oregonlegislature.gov/bills_laws/lawsstatutes/2009orLaw0865.html)

**Individualized marketing** Travel demand management programs focused on individual households. IM programs involve individualized outreach to households that identify household travel needs and ways to meet those needs with less vehicle travel.

**Light vehicles** Vehicles weighing 10,000 pounds or less, and include cars, light trucks, sport utility vehicles, motorcycles and small delivery trucks.

**Low Carbon Fuel Standard** In 2009, the Oregon legislature authorized the Environmental Quality Commission to develop low carbon fuel standards (LCFS) for Oregon. Each type of transportation fuel (gasoline, diesel, natural gas, etc.) contains carbon in various amounts. When the fuel is burned, that carbon turns into carbon dioxide (CO<sub>2</sub>), which is a greenhouse gas. The goal is to reduce the average carbon intensity of Oregon's transportation fuels by 10 percent below 2010 levels by 2022 and applies to the entire mix of fuel available in Oregon. Carbon intensity refers to the emissions per unit of fuel; it is not a cap on total emissions or a limit on the amount of fuel that can be burned. The lower the carbon content of a fuel, the fewer greenhouse gas emissions it produces.

**Pay-as-you-drive insurance (PAYD)** This pricing strategy converts a portion of liability and collision insurance from dollars-per-year to cents-per-mile to charge insurance premiums based on the total amount of miles driven per vehicle on an annual basis and other important rating factors, such as the driver's safety record. If a vehicle is driven more, the crash risk consequently increases. PAYD insurance charges policyholders according to their crash risk.

**Oregon Sustainable Transportation Initiative (OSTI)** An integrated statewide effort to reduce GHG emissions from the transportation sector by integrating land use and transportation. Guided by stakeholder input, the initiative has built collaborative partnerships among local governments and the state's six Metropolitan Planning Organizations to help meet Oregon's goals to reduce GHG emissions. The effort includes five main areas: Statewide Transportation Strategy development, GHG emission reduction targets for metropolitan areas, land use and transportation scenario planning guidelines, tools that support MPOs and local governments and public outreach. For more information, go to [www.oregon.gov/odot/td/osti](http://www.oregon.gov/odot/td/osti)

**Scenario** A term used to describe a possible future, representing a hypothetical set of strategies or sequence of events.

**Scenario planning** A process that tests different actions and policies to see their affect on GHG emissions reduction and other quality of life indicators.

**Statewide Transportation Strategy** The strategy, as part of OSTI, will define a vision for Oregon to reduce its GHG emissions from transportation systems, vehicle and fuel technologies and urban form by 2050. Upon completion, the strategy will be adopted by the Oregon Transportation Commission. For more information go to: <http://www.oregon.gov/ODOT/TD/OSTI/STS.shtml>.

**System efficiency** Strategies that optimize the use of the existing transportation system, including traffic management, employer-based commute programs, individualized marketing and carsharing.

**Traffic incident management** A coordinated process to detect, respond to, and remove traffic incidents from the roadway as safely and quickly as possible, reducing non-recurring roadway congestion.

**Traffic management** Strategies that improve transportation system operations and efficiency, including ramp metering, active traffic management, traffic signal coordination and real-time traveler information regarding traffic conditions, incidents, delays, travel times, alternate routes, weather conditions, construction, or special events.

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This report contains information that is intended for research purposes only and does not necessarily reflect current or future policy decisions of the Metro Council, MPAC or JPACT.

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Clean air and clean water do not stop at city limits or county lines. Neither does the need for jobs, a thriving economy and good transportation choices for people and businesses in our region. Voters have asked Metro to help with the challenges that cross those lines and affect the 25 cities and three counties in the Portland metropolitan area.

A regional approach simply makes sense when it comes to protecting open space, caring for parks, planning for the best use of land, managing garbage disposal and increasing recycling. Metro oversees world-class facilities such as the Oregon Zoo, which contributes to conservation and education, and the Oregon Convention Center, which benefits the region's economy.

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## **MPAC and JPACT recommendation to the Metro Council on a draft approach for testing**

The Climate Smart Communities Scenarios Project was initiated in response to a mandate from the 2009 Oregon Legislature to reduce per capita greenhouse gas emissions from cars and small trucks by 20 percent below 2005 levels by 2035. The goal of the project is to engage community, business, public health and elected leaders in a discussion to shape a preferred approach that accommodates expected growth, meets the state mandate and supports local and regional plans for downtowns, main streets and employment areas.

The recommendations below (#1-9) are intended to provide project staff with sufficient direction to move forward with testing a draft approach that will be subject to further discussion and potential refinement after analysis. They do not serve as an endorsement of the draft approach. The recommendations also reflect transitioning from Scenarios A, B and C to begin incorporating updated local, regional and state priorities from the 2014 Regional Transportation Plan (RTP) into the region's draft preferred approach.

### **RECOMMENDATION #1**

Assume implementation of adopted regional and local plans, including the 2040 Growth Concept and local zoning, comprehensive plans and transportation plans.

- Ensure local priorities as defined in adopted local land use and transportation plans and the 2014 Regional Transportation Plan (RTP) are reflected in the analysis.
- Assume adopted 2035 growth forecast (which reflects locally adopted plans as of 2010) and its estimated 12,000 acres of urban growth boundary expansion for purposes of analysis.

### **RECOMMENDATION #2**

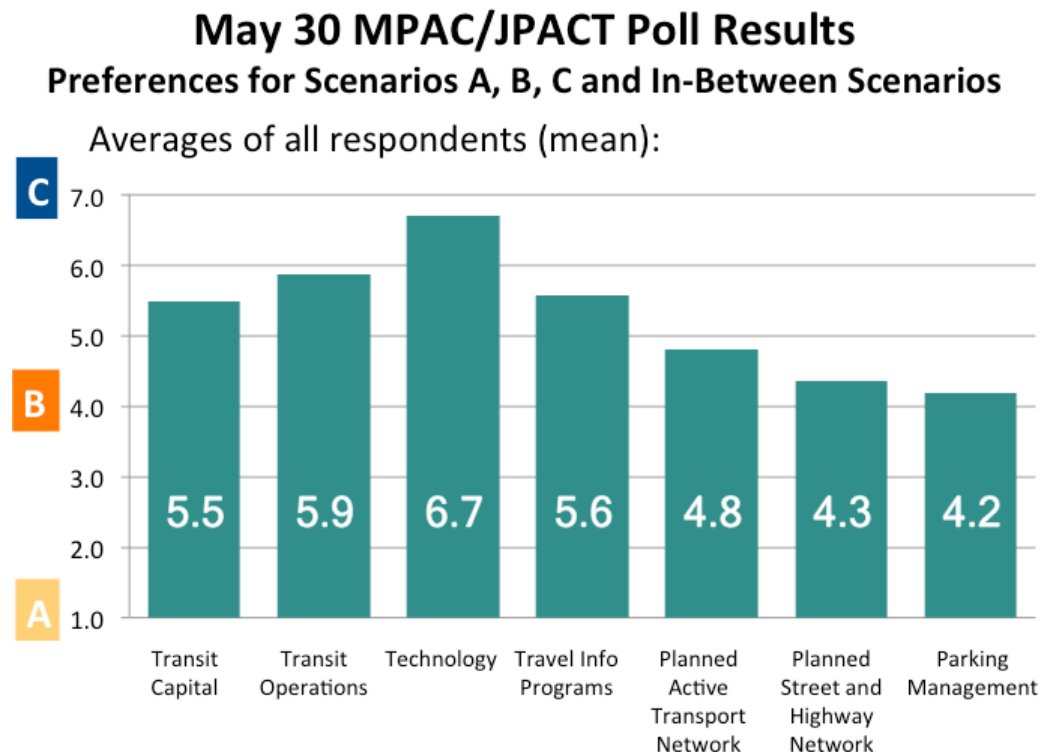
Assume state transition to cleaner fuels, more fuel-efficient vehicles and pay-as-you-drive insurance, as put forth by state agencies.

- Assume the vehicle technology and fuel assumptions developed by three state agencies (ODOT, ODEQ and ODOE) and specified by the Land Conservation and Development Commission when setting the region's per capita GHG emissions reduction target in 2011. The assumptions were developed based on the best available information and current estimates about improvements in vehicle technologies and fuels. More recent information shows Oregon is on track to meet the vehicle technology and fuel economy assumptions; however more progress is needed to remove the 2015 sunset on low carbon fuels standard.
- Assume the Statewide Transportation Strategy Vision assumptions for pay-by-the-mile vehicle insurance for 2035.



### RECOMMENDATION #3

Considering public input, cost, climate benefit and the region's six desired outcomes, the following levels of investment are recommended for the draft approach for testing:



More information about the recommendation for each policy area is summarized below to guide staff on the development and evaluation of the draft approach recommended for testing.

#### A. MAKE TRANSIT MORE CONVENIENT, FREQUENT, ACCESSIBLE AND AFFORDABLE

- Assume a “More than Scenario B” level of investment for transit capital. This level of investment is reflected in the 2014 RTP financially constrained system of transit capital investments, which includes the next priority high capacity transit corridors being planned for in the region and updated local, regional and state priorities identified during the 2014 RTP update.
- Assume a “Less than Scenario C” level of investment for transit operations that includes service enhancements and new community transit connections that link to regional transit connections, as identified in TriMet’s Service Enhancement Plans (SEPs) and the South Metro Area Rapid Transit District (SMART) Master Plan. For purposes of analysis, this level of investment reflects approximately 9,200 revenue hours of service (a 64% increase in revenue hours from 2010 levels).

**B. USE TECHNOLOGY TO ACTIVELY MANAGE THE TRANSPORTATION SYSTEM**

- Assume a “Scenario C” level of investment, recognizing the effectiveness and relatively low cost of this policy area and its ability to leverage investments and enhance the effectiveness of other policy areas.
- Target investments in technology to capital and operational investments in roads, transit, active transportation and parking management. For example, implement transit signal priority on frequent bus routes or use cameras linked to a traffic operations center to deploy incident response patrols to quickly clear breakdowns and crashes on the freeway system.

**C. PROVIDE INFORMATION AND INCENTIVES TO EXPAND THE USE OF TRAVEL OPTIONS**

- Assume a “More than B Scenario” level of investment recognizing the effectiveness and relatively low cost of this policy area and its ability to leverage investments and enhance the effectiveness of other policy areas. Success of this policy area is also contingent on the availability of transit and other travel options in areas targeted with these programs.
- Target investments in travel information and incentives to leverage and enhance the effectiveness of capital and operational investments in transit, active transportation and parking management to increase awareness and use of travel options in areas assumed to have new transit service, a new trail connection, or electric vehicle charging stations.
- The region has successfully implemented these policies and programs, but could accomplish more with expanded coordination, public-private partnerships and resources directed to local governments, employers, transportation management associations and transit agencies to support their implementation efforts.

**D. MAKE BIKING AND WALKING MORE SAFE AND CONVENIENT**

- Assume a “More than Scenario B” level of investment. This level of investment reflects the 2014 RTP financially constrained system of active transportation investments and represents updated local, regional and state priorities identified during the 2014 RTP update.

**E. MAKE STREETS AND HIGHWAYS MORE SAFE, RELIABLE AND CONNECTED**

- Assume a “More than Scenario B” level of investment. This level of investment reflects the 2014 RTP financially constrained system of street, highway, bridge, and street-related freight investments and represents updated local, regional and state priorities identified during the 2014 RTP update. It should be noted that investments aimed at improving streets or building new street connections will also include bicycle and pedestrian facilities, further completing the active transportation network.

**F. MANAGE PARKING TO MAKE EFFICIENT USE OF PARKING RESOURCES**

- Assume the parking management approach reflected in Scenario B, which links higher levels of parking management to the availability of high capacity transit, frequent bus service and active transportation in 2040 centers. This approach is also assumed in the 2014 RTP.

- Conduct a sensitivity test of the draft approach by analyzing a second version that assumes no change to parking management (as tested in Scenario A) and a third version that assumes the parking management approach used in Scenario C. The sensitivity test is intended to help build understanding of the range of parking management approaches available for each community and inform the tradeoffs between level of effort and ability to leverage and enhance the effectiveness of investments in other policy areas. The sensitivity test should be designed to fit within available time and resources.
- Parking management approaches include completing an assessment of parking usage and supply, building shared public parking in growing areas served by high capacity transit and frequent bus service, reducing/removing minimum parking requirements or setting maximum parking requirements in downtowns and transit-oriented developments, providing bicycle parking and restricting on-street parking time limits or installing parking meters in areas served by high quality transit and active transportation options.<sup>1</sup>

#### **RECOMMENDATION #4**

Project staff should work with MTAC and TPAC to conduct the evaluation during the summer and develop more detailed and locally-tailored modeling assumptions that reflect the draft approach. The evaluation should estimate greenhouse gas emissions reduction and other outcomes evaluated earlier in the project, such as cost, travel behavior, economic impacts, air quality, social equity and public health.

#### **RECOMMENDATION #5**

Project staff should report the results in September, including:

- the estimated greenhouse gas emissions reduction of each policy area to demonstrate the climate return on investment
- the potential benefits and impacts on household and freight travel costs, jobs, work force access to transit, physical activity, air pollution and other key outcomes reported in Phase 2
- the cost of implementation and, recognizing financing data limitations, any funding gap between the draft approach, current funding levels and the 2014 RTP financial assumptions. The reporting should identify potential funding mechanisms for investments needed to implement the preferred approach that do not have identified sources of funding.

#### **RECOMMENDATION #6**

Project staff should work with MTAC and TPAC to identify recommended actions that guide how the region integrates reducing greenhouse gas emissions with ongoing efforts. This will include preparing Regional Framework Plan amendments that refine existing regional policies and/or add new policies needed to implement the preferred approach.

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<sup>1</sup> See *Parking Made Easy*, a handbook developed for local governments, for more information at: <http://www.oregon.gov/LCD/TGM/docs/parkingprimerfinal71213.pdf>

**RECOMMENDATION #7**

Project staff should prepare a near-term implementation plan that describes future actions (post 2014) that are needed to implement the preferred approach. This could include developing a shared agenda seeking transportation funding during the 2015 legislative session and advocating for state actions to achieve fleet and technology advancements. It is important for the preferred approach and implementation recommendations to provide local flexibility and reflect a menu of options across the six policy areas that support the needs and priorities of each community. A draft framework is provided for reference.

**RECOMMENDATION #8**

Project staff should provide opportunities for further refinement of the draft approach during Fall 2014, prior to final action by the Metro Council in December 2014.

**RECOMMENDATION #9**

Project staff should provide opportunities for more discussion of what potential funding mechanisms should be considered to help pay for the investments and actions recommended in the preferred approach the Metro Council considers for adoption in December 2014. The discussions could lead to development of recommendations for continuing these finance discussions beyond the Climate Smart Communities Scenarios Project.

**DRAFT****Near-Term Implementation Plan Framework –  
A Starting Point****I. Policy tools**

- State policy
- Regional policy
- Local policy
- Regulatory

**II. Funding tools**

- Federal resources
- State resources
- Regional resources
- Local resources
- Public/private models

**III. Programmatic tools**

- TriMet Service Enhancement Plans
- SMART Master Plan and travel options programs
- Regional travel options program
- Local programs

**IV. Engagement and education tools**

- Advocacy for funding
- Advocacy for cleaner, low carbon fuels and technology advancements
- Community engagement